



CE Marking of Glass products

INTRODUCTION	8
ARTLITE	9
ARTLITE / ARTLITE DIGITAL HEAT STRENGTHENED	10
ARTLITE / ARTLITE DIGITAL THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED.....	11
BLACKPEARL	12
BLACKPEARL (ANNEALED).....	13
BLACKPEARL HEAT STRENGTHENED	14
BLACKPEARL THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	15
BIPV	16
BIPV SUNEWAT L 44.3 HEAT STENGTHENED.....	17
BIPV SUNEWAT L 44.3 THERMALLY TOUGHENED.....	18
COLORBEL	19
COLORBEL HEAT STRENGTHENED	20
COLORBEL THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED.....	21
CONCEPTA	22
CONCEPTA.....	23
GH PHON	24
GH PHON.....	25
GH PHON.....	26
GH PHON.....	27
IMAGIN	28
IMAGIN CLEAR (ANNEALED).....	29
IMAGIN CLEAR HEAT STRENGTHENED	30
IMAGIN CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	31
IMAGIN BRONZE (ANNEALED)	32
IMAGIN BRONZE HEAT STRENGTHENED.....	33
IMAGIN BRONZE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	34
IMAGIN YELLOW (ANNEALED)	35
IMAGIN YELLOW HEAT STRENGTHENED	36
IMAGIN YELLOW THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	37
IMAGIN WIRED	38
IMAGIN WIRED CLEAR (ANNEALED).....	39
IMAGIN WIRED O (ANNEALED).....	40
IMAGIN WIRED BRONZE (ANNEALED).....	41
IMAGIN WIRED YELLOW (ANNEALED).....	42
MIROX 3G	43
MIROX 3G CLEAR	44
MIROX 3G CLEARVISION	45
MIROX 3G BRONZE	46
MIROX 3G GREY	47
MIROX 3G BLACK MIROX	48
MIROX 3G PRIVABLUE	49
MIROX 3G GREEN	50
MIROX MNGE	51

MIROX MNGE CLEAR	52
MIROX MNGE CLEARVISION	53
MIROX MNGE BRONZE	54
MIROX MNGE GREY	55
MIROX MNGE PRIVABLUE	56
MIROX MNGE GREEN	57
PLANIBEL CLEAR	58
PLANIBEL CLEAR (ANNEALED)	59
PLANIBEL CLEAR HEAT STRENGTHENED	60
PLANIBEL CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	61
PLANIBEL LINEA AZZURRA (ANNEALED)	62
PLANIBEL LINEA AZZURRA HEAT STRENGTHENED	63
PLANIBEL LINEA AZZURRA THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	64
PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM (ANNEALED)	65
PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM HEAT STRENGTHENED	66
PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	67
PLANIBEL COLOURED	68
PLANIBEL GREEN (ANNEALED)	69
PLANIBEL GREEN HEAT STRENGTHENED	70
PLANIBEL GREEN THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	71
PLANIBEL BRONZE (ANNEALED)	72
PLANIBEL BRONZE HEAT STRENGTHENED	73
PLANIBEL BRONZE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	74
PLANIBEL GREY (ANNEALED)	75
PLANIBEL GREY HEAT STRENGTHENED	76
PLANIBEL GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	77
PLANIBEL DARK GREY (ANNEALED)	78
PLANIBEL DARK GREY HEAT STRENGTHENED	79
PLANIBEL DARK GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	80
PLANIBEL AZUR (ANNEALED)	81
PLANIBEL AZUR HEAT STRENGTHENED	82
PLANIBEL AZUR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	83
PLANIBEL DARK BLUE (ANNEALED)	84
PLANIBEL DARK BLUE HEAT STRENGTHENED	85
PLANIBEL DARK BLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	86
PLANIBEL PRIVABLUE (ANNEALED)	87
PLANIBEL PRIVABLUE HEAT STRENGTHENED	88
PLANIBEL PRIVABLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	89
PLANIBEL LOW-E	90
PLANIBEL TOP N (ANNEALED)	91
PLANIBEL TOP N+ (ANNEALED)	92
PLANIBEL TRI (ANNEALED)	93
PLANIBEL TOP 1.0 (ANNEALED)	94
PLANIBEL TRI ON CLEARVISION (ANNEALED)	95
PLANIBEL I-TOP (ANNEALED)	96
PLANIBEL I-TOP ON CLEARVISION (ANNEALED)	97
PLANIBEL TOP NT HEAT STRENGTHENED	98
PLANIBEL TOP NT THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	99
PLANIBEL TOP N+T (ANNEALED)	100
PLANIBEL TOP N+T HEAT STRENGTHENED	101
PLANIBEL TOP N+T THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	102
PLANIBEL ENERGY N (ANNEALED)	103
PLANIBEL ENERGY N ON CLEARVISION (ANNEALED)	104
PLANIBEL ENERGY NT (ANNEALED)	105
PLANIBEL ENERGY NT HEAT STRENGTHENED	106
PLANIBEL ENERGY NT THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	107
PLANIBEL G (ANNEALED)	108
PLANIBEL G HEAT STRENGTHENED	109
PLANIBEL G THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	110

PLANIBEL G FAST (ANNEALED)	111
PLANIBEL G FAST HEAT STRENGTHENED	112
PLANIBEL G FAST THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	113
PLANIBEL A (ANNEALED)	114
PLANIBEL A HEAT STRENGTHENED	115
PLANIBEL A THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	116
PLANIBEL HORTIPLUS N (ANNEALED)	117
PLANIBEL HORTIPLUS N HEAT STRENGTHENED	118
PLANIBEL HORTIPLUS N THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	119
POLISHED WIRED GLASS	120
POLISHED WIRED GLASS	121
PYROBELITE / PYROBEL	122
PYROBELITE	123
PYROBELITE	124
PYROBEL	125
PYROBEL	126
PYROBEL	127
PYROBEL	128
PYROBEL	129
PYROPANE	130
PYROPANE 100	131
PYROPANE 211-44	132
SOLAR PATTERNED GLASS	133
SOLATEX (ANNEALED)	134
SOLITE (ANNEALED)	135
ASTRALITE (ANNEALED)	136
SOLATEX THERMALLY TOUGHENED	137
SOLITE THERMALLY TOUGHENED	138
ASTRALITE THERMALLY TOUGHENED	139
STOPRAY	140
STOPRAY ELITE (ANNEALED)	141
STOPRAY ELITE (HEAT STRENGTHENED)	142
STOPRAY ELITE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	143
STOPRAY SAFIR (ANNEALED)	144
STOPRAY SAFIR (HEAT STRENGTHENED)	145
STOPRAY SAFIR (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	146
STOPRAY VISION-60 T (ANNEALED)	147
STOPRAY VISION-60 T (HEAT STRENGTHENED)	148
STOPRAY VISION-60 T (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	149
STOPRAY CARAT (ANNEALED)	150
STOPRAY CARAT (HEAT STRENGTHENED)	151
STOPRAY CARAT (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	152
STOPRAY VISION-50 (ANNEALED)	153
STOPRAY VISION-50 T (ANNEALED)	154
STOPRAY VISION-50 T (HEAT STRENGTHENED)	155
STOPRAY VISION-50 T (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	156
STOPRAY GALAXY (ANNEALED)	157
STOPRAY GALAXY (HEAT STRENGTHENED)	158
STOPRAY GALAXY (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	159
STOPRAY SILVER (ANNEALED)	160
STOPRAY SILVER (HEAT STRENGTHENED)	161
STOPRAY SILVER (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	162
STOPRAY CRISTAL (ANNEALED)	163
STOPRAY CRISTAL (HEAT STRENGTHENED)	164
STOPRAY CRISTAL (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	165
STOPRAY NEUTRAL (ANNEALED)	166
STOPRAY NEUTRAL (HEAT STRENGTHENED)	167
STOPRAY NEUTRAL (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	168

STOPRAY ELITE ON CLEARVISION (ANNEALED)	169
STOPRAY ELITE ON CLEARVISION (HEAT STRENGTHENED)	170
STOPRAY ELITE ON CLEARVISION (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	171
STOPRAY SAFIR ON CLEARVISION (ANNEALED)	172
STOPRAY SAFIR ON CLEARVISION (HEAT STRENGTHENED)	173
STOPRAY SAFIR ON CLEARVISION (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	174
STOPRAY CLEARVISION-50 (ANNEALED)	175
STOPRAY GALAXY ON CLEARVISION (ANNEALED)	176
STOPRAY GALAXY ON CLEARVISION (HEAT STRENGTHENED)	177
STOPRAY GALAXY ON CLEARVISION (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	178
STOPRAY SILVER ON CLEARVISION (ANNEALED)	179
STOPRAY SILVER ON CLEARVISION (HEAT STRENGTHENED)	180
STOPRAY SILVER ON CLEARVISION (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	181
STOPRAY LIME 61 T (ANNEALED)	182
STOPRAY LIME 61 T HEAT STRENGTHENED	183
STOPRAY LIME 61 T THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	184
STOPRAY EMERALDA (ANNEALED)	185
STOPRAY EMERALDA (HEAT STRENGTHENED)	186
STOPRAY EMERALDA (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	187
STOPRAY SELVA (ANNEALED)	188
STOPRAY SELVA (HEAT STRENGTHENED)	189
STOPRAY SELVA (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	190
STOPRAY OASIS (ANNEALED)	191
STOPRAY OASIS (HEAT STRENGTHENED)	192
STOPRAY OASIS (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	193
STOPRAY AQUAMARINE (ANNEALED)	194
STOPRAY AQUAMARINE (HEAT STRENGTHENED)	195
STOPRAY AQUAMARINE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	196
STOPRAY BRIGHT SEPIA (ANNEALED)	197
STOPRAY BRIGHT SEPIA (HEAT STRENGTHENED)	198
STOPRAY BRIGHT SEPIA (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	199
STOPRAY SIENNA (ANNEALED)	200
STOPRAY SIENNA (HEAT STRENGTHENED)	201
STOPRAY SIENNA (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	202
STOPRAY TOPAZ (ANNEALED)	203
STOPRAY TOPAZ (HEAT STRENGTHENED)	204
STOPRAY TOPAZ (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	205
STOPRAY TITANIUM 37 T (ANNEALED)	206
STOPRAY TITANIUM 37 T HEAT STRENGTHENED	207
STOPRAY TITANIUM 37 T THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	208
STOPRAY GRANIT GREY (ANNEALED)	209
STOPRAY GRANIT GREY (HEAT STRENGTHENED)	210
STOPRAY GRANIT GREY (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	211
STOPRAY QUARTZ (ANNEALED)	212
STOPRAY QUARTZ (HEAT STRENGTHENED)	213
STOPRAY QUARTZ (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	214
STOPRAY CHROMA (ANNEALED)	215
STOPRAY CHROMA (HEAT STRENGTHENED)	216
STOPRAY CHROMA (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	217
STOPRAY REFLEX BLUE (ANNEALED)	218
STOPRAY REFLEX BLUE (HEAT STRENGTHENED)	219
STOPRAY REFLEX BLUE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	220
STOPRAY ULTRAMARINE (ANNEALED)	221
STOPRAY ULTRAMARINE (HEAT STRENGTHENED)	222
STOPRAY ULTRAMARINE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	223
STOPRAY METAL BLUE (ANNEALED)	224
STOPRAY METAL BLUE (HEAT STRENGTHENED)	225
STOPRAY METAL BLUE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	226
STOPRAY INDIGO 48 T (ANNEALED)	227
STOPRAY INDIGO 48 T (HEAT STRENGTHENED)	228
STOPRAY INDIGO 48 T (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	229
STOPRAY BLUE NIGHT (ANNEALED)	230
STOPRAY BLUE NIGHT (HEAT STRENGTHENED)	231

STOPRAY BLUE NIGHT (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	232
STOPRAY DEEP BLUE (ANNEALED)	233
STOPRAY DEEP BLUE (HEAT STRENGTHENED)	234
STOPRAY DEEP BLUE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	235
STOPRAY MARINE BLUE (ANNEALED)	236
STOPRAY MARINE BLUE (HEAT STRENGTHENED)	237
STOPRAY MARINE BLUE (THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED)	238
STOPSOL	239
STOPSOL CLASSIC CLEAR (ANNEALED)	240
STOPSOL CLASSIC CLEAR HEAT STRENGTHENED	241
STOPSOL CLASSIC CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	242
STOPSOL CLASSIC BRONZE (ANNEALED)	243
STOPSOL CLASSIC BRONZE HEAT STRENGTHENED	244
STOPSOL CLASSIC BRONZE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	245
STOPSOL CLASSIC DARK BLUE (ANNEALED)	246
STOPSOL CLASSIC DARK BLUE HEAT STRENGTHENED	247
STOPSOL CLASSIC DARK BLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	248
STOPSOL CLASSIC GREEN (ANNEALED)	249
STOPSOL CLASSIC GREEN HEAT STRENGTHENED	250
STOPSOL CLASSIC GREEN THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	251
STOPSOL CLASSIC GREY (ANNEALED)	252
STOPSOL CLASSIC GREY HEAT STRENGTHENED	253
STOPSOL CLASSIC GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	254
STOPSOL PHOENIX CLEAR (ANNEALED)	255
STOPSOL PHOENIX CLEAR HEAT STRENGTHENED	256
STOPSOL PHOENIX CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	257
STOPSOL PHOENIX GREEN (ANNEALED)	258
STOPSOL PHOENIX GREEN HEAT STRENGTHENED	259
STOPSOL PHOENIX GREEN THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	260
STOPSOL PHOENIX GREY (ANNEALED)	261
STOPSOL PHOENIX GREY HEAT STRENGTHENED	262
STOPSOL PHOENIX GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	263
STOPSOL SILVERLIGHT PRIVABLUE (ANNEALED)	264
STOPSOL SILVERLIGHT PRIVABLUE HEAT STRENGTHENED	265
STOPSOL SILVERLIGHT PRIVABLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	266
STOPSOL SUPERSILVER CLEAR (ANNEALED)	267
STOPSOL SUPERSILVER CLEAR HEAT STRENGTHENED	268
STOPSOL SUPERSILVER CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	269
STOPSOL SUPERSILVER GREEN (ANNEALED)	270
STOPSOL SUPERSILVER GREEN HEAT STRENGTHENED	271
STOPSOL SUPERSILVER GREEN THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	272
STOPSOL SUPERSILVER GREY (ANNEALED)	273
STOPSOL SUPERSILVER GREY HEAT STRENGTHENED	274
STOPSOL SUPERSILVER GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	275
STOPSOL SUPERSILVER DARK BLUE (ANNEALED)	276
STOPSOL SUPERSILVER DARK BLUE HEAT STRENGTHENED	277
STOPSOL SUPERSILVER DARK BLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	278
STRATOBEL	279
STRATOBEL CLEAR (22.x, 33.x)	280
STRATOBEL CLEAR (44.x, 55.x)	281
STRATOBEL CLEAR (66.x, 88.x, 10 10.x)	282
STRATOBEL LINEA AZZURRA (88.x, 10 10.x)	283
STRATOBEL TOP N	284
STRATOBEL TOP N+	285
STRATOBEL TRI	286
STRATOBEL TOP 1.0	287
STRATOBEL I-TOP	288
STRATOBEL ENERGY N	289
STRATOBEL G	290
STRATOBEL (BURGLAR RESISTANT)	291
STRATOBEL (BULLET RESISTANT)	292

STRATOBEL (BULLET RESISTANT)	293
STRATOBEL (BULLET RESISTANT)	294
STRATOBEL (BULLET RESISTANT)	295
STRATOBEL (BULLET RESISTANT)	296
STRATOBEL (BULLET RESISTANT)	297
STRATOBEL (BULLET RESISTANT)	298
STRATOBEL (BULLET RESISTANT) IN DGU.....	299
STRATOBEL (BULLET RESISTANT) IN DGU.....	300
STRATOBEL (BULLET RESISTANT) IN DGU.....	301
STRATOBEL COLOR STANDARD	302
STRATOBEL COLOR STANDARD	303
STRATOBEL COLOR RAINNBOW.....	304
STRATOBEL COLOR RAINBOW	305
STRATOBEL COLOR RAINBOW	306
STRATOBEL EVA.....	307
STRATOBEL EVA	308
STRATOBEL IMPRESSION.....	309
STRATOBEL IMPRESSION.....	310
STRATOBEL PC	311
STRATOBEL PC (BURGLAR RESISTANT).....	312
STRATOBEL PC (BULLET RESISTANT).....	313
STRATOBEL PC (BULLET RESISTANT).....	314
STRATOBEL PC (BULLET RESISTANT) IN DGU.....	315
STRATOBEL – OTHER PRODUCTS	316
STRATOBEL – OTHER PRODUCTS (LEVEL 3).....	317
STRATOBEL – OTHER PRODUCTS (LEVEL 1).....	318
STRATOBEL – OTHER PRODUCTS (LEVEL 3).....	319
STRATOBEL – OTHER PRODUCTS (LEVEL 1).....	320
STRATOPHONE	321
STRATOPHONE CLEAR (33.X, 44.X).....	322
STRATOPHONE CLEAR (55.X, 66.X, 88.X).....	323
STRATOPHONE TOP N	324
STRATOPHONE TOP N+	325
STRATOPHONE TRI	326
STRATOPHONE I-TOP	327
STRATOPHONE TOP 1.0	328
STRATOPHONE ENERGY N	329
SUNERGY.....	330
SUNERGY CLEAR (ANNEALED).....	331
SUNERGY CLEAR HEAT STRENGTHENED	332
SUNERGY CLEAR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	333
SUNERGY AZUR (ANNEALED)	334
SUNERGY AZUR HEAT STRENGTHENED	335
SUNERGY AZUR THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	336
SUNERGY DARK BLUE (ANNEALED)	337
SUNERGY DARK BLUE HEAT STRENGTHENED.....	338
SUNERGY DARK BLUE THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	339
SUNERGY GREEN (ANNEALED)	340
SUNERGY GREEN HEAT STRENGTHENED	341
SUNERGY GREEN THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	342
SUNERGY GREY (ANNEALED)	343
SUNERGY GREY HEAT STRENGTHENED	344
SUNERGY GREY THERMALLY TOUGHENED OR HEAT SOAKED THERMALLY TOUGHENED	345
THERMALLY TOUGHENED GLASS FOR SHOWER ENCLOSURE.....	346
THERMOBEL.....	348

THERMOBEL (LEVEL 3 PRODUCTS).....	349
THERMOBEL (LEVEL 1 PRODUCTS).....	350
THERMOBEL VIP.....	351
THERMOBEL VIP.....	352
THERMOBEL VIP.....	353
THERMOBEL VIP.....	354
THERMOBEL VIP.....	355
TRANSLATIONS	356
ENGLISH → ČEŠTINA.....	357
ENGLISH → DANSK.....	358
ENGLISH → DEUTSCH.....	359
ENGLISH → EESTI KEEL.....	360
ENGLISH → ελληνικά.....	361
ENGLISH → ESPAÑOL.....	362
ENGLISH → FRANÇAIS.....	363
ENGLISH → ITALIANO.....	364
ENGLISH → LATVIEŠU VALODA.....	365
ENGLISH → LIETUVIU KALBA.....	366
ENGLISH → MAGYAR.....	367
ENGLISH → NEDERLANDS.....	368
ENGLISH → NORKS.....	369
ENGLISH → POLSKI.....	370
ENGLISH → SLOVENČINA.....	371
ENGLISH → SLOVENŠČINA.....	372
ENGLISH → SUOMI.....	373
ENGLISH → SVENSKA.....	374

Introduction

This file gives CE declarations and performances for basis glass products of AGC Flat Glass Europe :

- Float
- Patterned glass
- Wired glass
- Polished wired glass
- Coatings
- Heat treated glass

For laminated glass and insulating glass unit, some glass compositions are indicated but it is not possible to list all glass structures. The CE declarations and performances of these products are available on www.YourGlass.com in one of the dynamic tools of My Glass Toolbox:

- Advanced product finder
- Glass Configurator

General informations concerning CE-Marking and links to these tools are available at www.YourGlass.com/CE.

Remark

Some products listed in this file are out of range, not standard in catalogue and/or only dedicated to a specific market.

For the availability, please consult www.YourGlass.com.

Artlite



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Artlite / Artlite Digital Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ARTLITE / ARTLITE DIGITAL Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Artlite/Artlite Digital Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Artlite / Artlite Digital Thermally toughened or Heat soaked
thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ARTLITE/ARTLITE DIGITAL Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / EN 14179-2**

Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division

Blackpearl



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Blackpearl (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **BLACKPEARL**, intended to be used in buildings and construction works, following **EN 1096-4**

Blackpearl characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Blackpearl Heat strengthened**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **BLACKPEARL Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Blackpearl Heat strengthened characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
01st of September 2006


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Blackpearl Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **BLACKPEARL Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / EN 14179-2**

Blackpearl Thermally toughened or Heat soaked thermally toughened characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
 01st of March 2007


 JL. Batkin
 Vice-President, Processed Glass Division

BIPV



**CE Marking of Laminated glass – EN 14449
Declaration of performances
BIPV SunEwat L 44.3 heat stenghtened**



We

**AGC Flat Glass Europe
Division Solar Products**

Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **BIPV SunEwat L**, intended to be used in buildings and construction works, following **EN 14449**

44.3 BIPV SunEwat L characteristics in :	Surface covered by solar celles regarding to the surface of the glass											
	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:												
- U-value (EN 673)	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87/8/8	78/8/9	70/9/10	61/9/11	52/9/12	44/10/13	34/10/14	26/10/15	17/10/16	9/11/17	0/11/18	0/11/18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75/7/7	68/8/8	60/8/9	53/9/9	45/9/10	38/10/11	30/10/12	23/11/13	15/11/13	8/12/14	0/12/15	0/12/15

Brussels
15th of October 2010

J.L. Batkin
Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
BIPV SunEwat L 44.3 thermally toughened**



We

**AGC Flat Glass Europe
Division Solar Products**

Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **BIPV SunEwat L**, intended to be used in buildings and construction works, following **EN 14449**

44.3 BIPV SunEwat L characteristics in :	Surface covered by solar celles regarding to the surface of the glass											
	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:												
- U-value (EN 673)	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87/8/8	78/8/9	70/9/10	61/9/11	52/9/12	44/10/13	34/10/14	26/10/15	17/10/16	9/11/17	0/11/18	0/11/18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75/7/7	68/8/8	60/8/9	53/9/9	45/9/10	38/10/11	30/10/12	23/11/13	15/11/13	8/12/14	0/12/15	0/12/15

Brussels
15th of October 2010

J.L. Batkin
Vice-President, Processed Glass Division

Colorbel



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Colorbel Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **COLORBEL Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Colorbel Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Colorbel Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **COLORBEL Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Colorbel Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 01st of March 2007

J.L. Batkin
 Vice-President, Processed Glass Division

Concepta



CE Marking of Laminated glass – EN 14449
Declaration of performances
Concepta



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Concepta**, intended to be used in buildings and construction works, following **EN 14449**

Concepta characteristics:	33.2	44.2	55.2	66.2	88.2	10 10.2
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 11th of September 2007


 JL. Batkin
 Vice-President, Processed Glass Division

GH Phon



CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **GH Phon**, intended to be used in buildings and construction works, following **EN 14449**

GH Phon characteristics in :	4-1-4	4-1,5-4	4-1-5	4-1,5-5	4-1-6	4-1,5-6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	37 (-1, -2)	NPD	NPD	NPD	NPD
11. Thermal properties:						
- Ug-value (EN 673)	5,5	5,5	5,5	5,5	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 8	88 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	76 / 7 / 7	75 / 7 / 7	74 / 7 / 7	74 / 7 / 7	73 / 7 / 7	72 / 7 / 7

Brussels
 20th of July 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **GH Phon**, intended to be used in buildings and construction works, following **EN 14449**

GH Phon characteristics in :	5-1-5	5-1,5-5	6-1-6	6-1,5-6	8-1-6	8-1,5-6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	38 (0, -2)	NPD	38 (0, -3)	NPD	NPD
11. Thermal properties:						
- Ug-value (EN 673)	5,5	5,4	5,4	5,4	5,4	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8	85 / 8 / 8	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7	68 / 7 / 7	67 / 6 / 6

Brussels
20th of July 2007

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **GH Phon**, intended to be used in buildings and construction works, following **EN 14449**

GH Phon characteristics in :	8-1-8	8-1,5-8	8-1-10	8-1,5-10	10-1-10	10-1,5-10
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:						
- Ug-value (EN 673)	5,3	5,2	5,2	5,2	5,2	5,2
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	84 / 8 / 8	83 / 8 / 8	83 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 6 / 6	65 / 6 / 6	63 / 6 / 6	63 / 6 / 6	61 / 6 / 6	60 / 6 / 6

Brussels
20th of July 2007

JL. Batkin
Vice-President, Processed Glass Division

Imagin



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin clear (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN CLEAR**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	13,5 mm	15 mm	19mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): Rw (C, Ctr)	NPD	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	NPD	NPD	NPD
11. Thermal properties:										
- U-value (EN 673)	5,8	5,8	5,8	5,8	5,7	5,7	5,6	5,5	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	82 / 7 / 7	80 / 7 / 7	77 / 7 / 7	74 / 7 / 7	70 / 7 / 7	67 / 6 / 6	63 / 6 / 6

Brussels
23rd of April 2008

A. Jardin
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Imagin clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Imagin clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	84 / 8 / 8	82 / 7 / 7	80 / 7 / 7	77 / 7 / 7	74 / 7 / 7

Brussels
1st of March 2007


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Imagin clear Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Imagin clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	13,5 mm	15 mm	19mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6	5,5	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	84 / 8 / 8	82 / 7 / 7	80 / 7 / 7	77 / 7 / 7	74 / 7 / 7	70 / 7 / 7	67 / 6 / 6	63 / 6 / 6

Brussels
 1st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin bronze (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN BRONZE**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin bronze characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Imagin bronze Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN BRONZE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Imagin bronze Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened - EN 12150-2
CE Marking of Heat soaked Thermally toughened or - EN 14179-2
Declaration of performances
Imagin bronze Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN BRONZE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Imagin bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
 1st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin yellow (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN YELLOW**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin yellow characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Imagin yellow Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN YELLOW Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Imagin yellow Heat strengthened characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Imagin yellow Thermally toughened or Heat soaked thermally
 toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN YELLOW Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Imagin yellow Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division

Imagin wired



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin wired clear (annealed)**




We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN WIRED CLEAR**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin wired clear characteristics in :	6 mm	7 mm	9 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	80 / 7 / 7	79 / 7 / 7	76 / 7 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin wired O (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN WIRED O**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin wired clear characteristics in :	6 mm
Certificate Number:	1394/89/106/EEC/01B/2006
Notified Body:	1394
1. Resistance to fire (EN 13501-2)	E45
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	80 / 7 / 7

Brussels
2nd of September 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin wired bronze (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN WIRED BRONZE**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin wired bronze characteristics in :	6 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	46 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	49 / 5 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin wired yellow (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN WIRED YELLOW**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin wired yellow characteristics in :	6 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	65 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	51 / 6 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division

Mirox 3G



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Clear**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G CLEAR**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Clearvision**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G CLEARVISION**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Clearvision characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Bronze**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G BRONZE**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Bronze characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Grey**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G GREY**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Grey characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Black Mirox**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G BLACK MIROX**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Black Mirox characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G PrivaBlue**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G PRIVABLU**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G PrivaBlue characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Green**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G GREEN**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox 3G Green characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Mirox MNGE



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE Clear**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE CLEAR**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE Clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE Clearvision**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE CLEARVISION**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE Clearvision characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE Bronze**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE BRONZE**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE Bronze characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE Grey**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE GREY**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE Grey characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE PrivaBlue**




We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE PRIVABLUE**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE PrivaBlue characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox MNGE Green**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX MNGE GREEN**, intended to be used in buildings and construction works, following **EN 1036-2**

Mirox MNGE Green characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD
11. Thermal properties - U-value (EN 673)	5,8	5,8	5,8	5,7	5,7
12. Light transmission (EN 410): τ_v	NPD	NPD	NPD	NPD	NPD
Light reflection (EN 410): ρ_v	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Planibel clear



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel clear (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEAR**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7	81 / 7 / 7	78 / 7 / 7	75 / 7 / 7	72 / 7 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	84 / 8 / 8	83 / 7 / 7	81 / 7 / 7	78 / 7 / 7	75 / 7 / 7

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel clear Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel clear Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:							
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7	81 / 7 / 7	78 / 7 / 7	75 / 7 / 7	72 / 7 / 7

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Linea Azzurra (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL LINEA AZZURRA**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Linea Azzurra characteristics in :	8 mm	10 mm	12 mm	15 mm	19 mm	25 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	5,7	5,6	5,6	5,5	5,4	5,2
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 8 / 8	81 / 7 / 7	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6	66 / 6 / 6	61 / 6 / 6	56 / 6 / 6	50 / 6 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Linea Azzurra Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL LINEA AZZURRA Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Linea Azzurra Heat strengthened characteristics in :	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6

Brussels
01st of September 2006


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL LINEA AZZURRA Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened characteristics in :	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C1	1C1	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties:					
- U-value (EN 673)	5,7	5,6	5,6	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 8 / 8	81 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6	66 / 6 / 6	61 / 6 / 6	56 / 6 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Clearvision, Sunmax, Sunmax Premium characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	86 / 8 / 8	85 / 8 / 8

Brussels
06th of March 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium Heat strengthened**



We



AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Clearvision, Sunmax, Sunmax Premium Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8

Brussels
06th of March 2009

JL. Batkin
Vice-President, Processed Glass Division

	CE Marking of Thermally toughened glass - EN 12150-2 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2 Declaration of performances Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened	
---	--	---

We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL CLEARVISION, SUNMAX, SUNMAX PREMIUM Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened characteristics in	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	86 / 8 / 8	85 / 8 / 8



Brussels
06th of March 2009

JL. Batkin
Vice-President, Processed Glass Division

Planibel coloured



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Green (annealed)**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREEN**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Green characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
23rd of April 2008


A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Green Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Green Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Green Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Green Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
 01st of March 2007

J.L. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Bronze (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL BRONZE**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Bronze characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 6 / 6	61 / 6 / 6	56 / 6 / 6	50 / 5 / 5	42 / 5 / 5	34 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Bronze Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL BRONZE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Bronze Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	56 / 6 / 6	50 / 5 / 5	42 / 5 / 5	34 / 5 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Bronze Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL BRONZE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 6 / 6	61 / 6 / 6	56 / 6 / 6	50 / 5 / 5	42 / 5 / 5	34 / 5 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Grey (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREY**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Grey characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:							
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	63 / 6 / 6	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5	21 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64 / 6 / 6	58 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5	30 / 5 / 5	24 / 4 / 4

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Grey Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	58 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5	30 / 4 / 4

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Grey Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:							
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	63 / 6 / 6	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5	21 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64 / 6 / 6	58 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5	30 / 5 / 5	24 / 5 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Dark Grey (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK GREY**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Dark Grey characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4

Brussels
27th of November 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Dark Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Dark Grey Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4

Brussels
27th of November 2008


JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Planibel Dark Grey Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Dark Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4

Brussels
 27th of November 2008


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Azur (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL AZUR**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Azur characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	49 / 6 / 6	42 / 5 / 5	36 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Azur Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL AZUR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Azur Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	49 / 6 / 6	42 / 5 / 5	36 / 5 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Azur Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL AZUR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Azur Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	49 / 6 / 6	42 / 5 / 5	36 / 5 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel Dark Blue (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK BLUE**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel Dark Blue characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	58 / 6 / 6	50 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	52 / 6 / 6	41 / 5 / 5	33 / 5 / 5

Brussels
01st of September 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Dark Blue Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK BLUE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Dark Blue Heat strengthened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	57 / 6 / 6	50 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	52 / 6 / 6	41 / 5 / 5	33 / 5 / 5

Brussels
01st of September 2009


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Dark Blue Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL DARK BLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Planibel Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	57 / 6 / 6	50 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	52 / 6 / 6	41 / 5 / 5	33 / 5 / 5

Brussels
 01st of September 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Float glass - EN 572-9
Declaration of performances
Planibel PrivaBlue (annealed)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL PRIVABLU**, intended to be used in buildings and construction works, following **EN 572-9**

Planibel PrivaBlue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 5 / 5	20 / 4 / 4	14 / 4 / 4	10 / 4 / 4

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel PrivaBlue Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL PRIVABLU** Heat strengthened, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel PrivaBlue Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 5 / 5	20 / 4 / 4	14 / 4 / 4	10 / 4 / 4

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel PrivaBlue Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL PRIVABLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel PrivaBlue Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 5 / 5	20 / 4 / 4	14 / 4 / 4	10 / 4 / 4

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division

Planibel low-e



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top N (annealed)**




We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Top N characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 6 / 8	87 / 6 / 8	87 / 6 / 8	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64 / 25 / 23	63 / 25 / 22	63 / 25 / 22	62 / 25 / 21	61 / 25 / 20	60 / 25 / 19

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top N+ (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Top N+ characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ε_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 6 / 8	86 / 6 / 8	86 / 6 / 7	85 / 6 / 7	84 / 6 / 7	83 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 29 / 25	58 / 29 / 24	57 / 29 / 23	56 / 29 / 21	54 / 29 / 19	52 / 29 / 17

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Tri (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Tri**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Tri characteristics in :	3 mm	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	72 / 17 / 16	71 / 17 / 15	69 / 17 / 14

Brussels
27th of October 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top 1.0 (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top 1.0**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel top 1.0 characteristics in :	3 mm	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 15 / 17	77 / 15 / 17	76 / 15 / 17	76 / 15 / 17	75 / 15 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 42 / 34	47 / 42 / 32	46 / 42 / 30	45 / 42 / 27	44 / 41 / 25

Brussels
11th of June 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Tri on Clearvision (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Tri on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Tri on Clearvision characteristics in :	3 mm	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 7 / 8	89 / 7 / 8	89 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75 / 18 / 17	75 / 18 / 17	75 / 17 / 17

Brussels
20th of February 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel I-Top (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel I-Top**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel I-Top characteristics in :	3 mm	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 8	85 / 6 / 8	85 / 6 / 8	84 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 32 / 26	55 / 32 / 24	53 / 32 / 22	52 / 32 / 21

Brussels
4th of December 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel I-Top on Clearvision (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel I-Top on clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel I-Top on Clearvision characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 6 / 8	87 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 32 / 32	59 / 32 / 31

Brussels
20th of February 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Top NT Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top NT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Top NT Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,05	0,05	0,05	0,05
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 6 / 6	87 / 6 / 6	86 / 6 / 6	85 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 21 / 17	64 / 21 / 16	62 / 21 / 15	60 / 21 / 14

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Top NT Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top NT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Top NT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,05	0,05	0,05	0,05
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 6 / 6	87 / 6 / 6	86 / 6 / 6	85 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 21 / 17	64 / 21 / 16	62 / 21 / 15	60 / 21 / 14

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top N+T (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+T**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Top N+T characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Top N+T Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Top N+T Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 6	87 / 8 / 6	86 / 8 / 6	85 / 8 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 25 / 22	63 / 25 / 20	61 / 25 / 19	59 / 25 / 17

Brussels
31st of March 2008

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Top N+T Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Top N+T Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 6	87 / 8 / 6	86 / 8 / 6	85 / 8 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 25 / 22	63 / 25 / 20	61 / 25 / 19	59 / 25 / 17

Brussels
 31st of March 2008

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Energy N (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy N**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Energy N characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 6 / 7	78 / 6 / 7	77 / 6 / 7	76 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 29	43 / 38 / 26	42 / 38 / 24	41 / 38 / 21

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Energy N on Clearvision (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy N on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Energy N on Clearvision characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ε_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 6 / 7	80 / 6 / 7	80 / 6 / 7	80 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	46 / 38 / 35	45 / 38 / 34	45 / 38 / 33	45 / 38 / 33

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Energy NT (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy NT**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Energy NT characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ε_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Energy NT Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy NT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Energy NT Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 7 / 7	82 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 39 / 29	46 / 39 / 26	45 / 39 / 24	44 / 39 / 22

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Energy NT Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy NT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Energy NT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 7 / 7	82 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 39 / 29	46 / 39 / 26	45 / 39 / 24	44 / 39 / 22

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel G (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel G characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,15	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel G Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel G Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
01st of September 2006


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel G Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel G Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
 01st of March 2007

J.L. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel G fasT (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel G fasT characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,15	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 11	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 11	67 / 12 / 11

Brussels
04th of June 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel G fasT Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel G fasT Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 12	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 13	67 / 12 / 11

Brussels
04th of June 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Planibel G fasT Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel G fasT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 12	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 13	67 / 12 / 11

Brussels
 04th of June 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel A (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel A characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 11 / 10	79 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 12 / 11	65 / 11 / 10

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel A Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel A Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 11 / 10	79 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 12 / 11	65 / 11 / 10

Brussels
05th of November 2009


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel A Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel A Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 11 / 10	79 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 12 / 11	65 / 11 / 10

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Hortiplus N (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Hortiplus N characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,15	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Hortiplus N Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Hortiplus N Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division

Polished wired glass



CE Marking of Polished wired glass - EN 572-9
Declaration of performances
Polished wired glass



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Polished wired glass**, intended to be used in buildings and construction works, following **EN 572-9**

Polished wired glass characteristics in :	6 mm Polished wired glass P	6 mm Polished wired glass J	6 mm Polished wired glass Safety J
Certificate Number:	1121-CPD-CA0001	0749-CPD-410 143AS	0749-CPD-410 143AS
Notified Body:	1121	0749	0749
1. Resistance to fire (EN 13501-2)	E30/E60	E30	E30
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	3B3
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 8 / 8	80 / 8 / 8	80 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 7 / 7	70 / 7 / 7	70 / 7 / 7

Brussels
 16th of January 2009

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division

Pyrobelite / Pyrobel



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobelite**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobelite**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobelite characteristics in :	Pyrobelite 7	Pyrobelite 7 EG	Pyrobelite 11
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EW30	EW30	EW30
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	3B3	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (0; -3)	35 (-1; -2)	35 (-1; -2)
11. Thermal properties:			
- U-value (EN 673)	5,7	5,5	5,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	65 / 7 / 7	65 / 7 / 7

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobelite**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobelite**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobelite characteristics in :	Pyrobelite 12	Pyrobelite 12 EG	Pyrobelite 13
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI20 / EW60	EI20 / EW60	EW30
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	36 (-1; -3)	38 (-1; -3)	34 (0; -3)
11. Thermal properties:			
- U-value (EN 673)	5,6	5,4	5,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	85 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 7 / 7	58 / 6 / 6	65 / 6 / 6

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobel characteristics in :	Pyrobel 8	Pyrobel 8 EG	Pyrobel 16	Pyrobel 16 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI15 / EW30	EI15 / EW30	EI30 / EW60	EI30 / EW60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1B1	2B2	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (-1; -3)	36 (-1; -3)	39 (-1; -3)	39 (-1; -3)
11. Thermal properties:				
- U-value (EN 673)	5,6	5,4	5,4	5,2
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 7 / 7	62 / 6 / 6	60 / 6 / 6	54 / 6 / 6

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobel characteristics in :	Pyrobel 17	Pyrobel 17 EG	Pyrobel 17N	Pyrobel 17N EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI45	EI45	EW60	EW60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	37 (-1; -3)	38 (0; -3)	39 (0; -3)	40 (-1, -3)
11. Thermal properties:				
- U-value (EN 673)	5,4	5,2	5,4	5,2
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	84 / 8 / 8	86 / 8 / 8	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	56 / 6 / 6	67 / 7 / 7	60 / 7 / 7

Brussels
20th of May 2010

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobel characteristics in :	Pyrobel 21	Pyrobel 21 EG	Pyrobel 25	Pyrobel 25 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI45 / EW60	EI45 / EW60	EI60	EI60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (0; -3)	40 (-1; -3)	40 (-1; -3)	43 (-1; -4)
11. Thermal properties:				
- U-value (EN 673)	5,3	5,1	5,2	5,0
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 7 / 7	81 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	53 / 6 / 6	48 / 6 / 6

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobel characteristics in :	Pyrobel 35	Pyrobel 35 EG	Pyrobel 53	Pyrobel 53 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI90	EI90	EI120	EI120
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	41 (-1; -4)	42 (-1; -4)	45 (-1; -4)	46 (-2; -5)
11. Thermal properties:				
- U-value (EN 673)	4,9	4,8	4,5	4,3
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	77 / 7 / 7	72 / 7 / 7	71 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	49 / 6 / 6	46 / 6 / 6	40 / 5 / 5	38 / 5 / 5

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel**, intended to be used in buildings and construction works, following **EN 14449**

Pyrobel characteristics in :	Pyrobel 19H	Pyrobel 23H	Pyrobel 28H
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI30	EI45	EI60
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (-1; -3)	39 (0; -3)	41 (0;-3)
11. Thermal properties:			
- U-value (EN 673)	5,2	5,0	4,9
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	80 / 7 / 7	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	53 / 6 / 6	49 / 6 / 6	47 / 6 / 6

Brussels
20th of February 2009


 JL. Batkin
 Vice-President, Processed Glass Division

Pyropane



**CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Pyropane 100**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 14179-2**

Pyropane characteristics in :	Pyropane 100
Certificate Number:	0336-CPD-9265A
Notified Body :	0336
1. Resistance to fire (EN 13501-2)	E30
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	1C1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2; -3)
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	81 / 7 / 7

Brussels
2nd of September 2008


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Insulating glass unit – EN 1279-5
Declaration of performances
Pyropane 211-44**




We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5**

Pyropane characteristics in :	Pyropane 211 - 44 6 - 12 air - 6	Pyropane 211 - 44 6 - 12 argon 90% - 6	Pyropane 211 - 44 6 - 15 air - 6	Pyropane 211 - 44 6 - 15 argon 90% - 6
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749	0749
1. Resistance to fire (EN 13501-2)	E30/60 – EW30/60	E30/60 – EW30/60	E30/60 – EW30/60	E30/60 – EW30/60
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-1; -4)	31 (-1; -4)	32 (-1; -3)	32 (-1; -3)
11. Thermal properties:				
- U-value (EN 673)	1,5	1,2	1,2	1,0
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 13 / 13	73 / 13 / 13	73 / 13 / 13	73 / 13 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 31 / 29	40 / 31 / 29	40 / 31 / 29	40 / 31 / 29

Brussels
8th of September 2010


 JL. Batkin
 Vice-President, Processed Glass Division

Solar patterned glass



**CE Marking of Patterned glass - EN 572-9
Declaration of performances
Solatex (annealed)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLATEX**, intended to be used in buildings and construction works, following **EN 572-9**

Solatex characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Patterned glass - EN 572-9
Declaration of performances
Solite (annealed)**




We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLITE**, intended to be used in buildings and construction works, following **EN 572-9**

Solite characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Patterned glass - EN 572-9
Declaration of performances
Astralite (annealed)**




We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ASTRALITE**, intended to be used in buildings and construction works, following **EN 572-9**

ASTRALITE characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8

Brussels
22nd of October 2009


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Solatex Thermally toughened**




We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLATEX Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Solatex Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Solite Thermally toughened**




We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLITE Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Solite Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Astralite Thermally toughened**




We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ASTRALITE Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Astralite Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U-value (EN 673)	5,8	5,8
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8

Brussels
22nd of October 2009


 JL. Batkin
 Vice-President, Processed Glass Division

Stopray



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-60 T (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-60 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-60 T characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Vision-60 T (Heat strengthened)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Vision-60 T Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 41 / 30	38 / 41 / 26	37 / 41 / 23	36 / 41 / 21

Brussels
25th of June 2010


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Vision-60 T (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-60 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Vision-60 T Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 41 / 30	38 / 41 / 26	37 / 41 / 23	36 / 41 / 21

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Carat**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Carat**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Carat**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-50 (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-50**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-50 characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	55 / 17 / 17	55 / 17 / 17	55 / 17 / 16	54 / 17 / 16	53 / 17 / 16	53 / 17 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29 / 43 / 35	29 / 43 / 33	28 / 43 / 32	28 / 43 / 29	27 / 43 / 27	27 / 43 / 25

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-50 T (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-50 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-50 T characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Vision-50 T (Heat strengthened)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Vision-50 T Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 18 / 18	55 / 18 / 18	54 / 18 / 18	54 / 18 / 17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 46 / 37	32 / 46 / 34	31 / 46 / 31	30 / 46 / 30

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Vision-50 T (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-50 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Vision-50 T Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 18 / 18	55 / 18 / 18	54 / 18 / 18	54 / 18 / 17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 46 / 37	32 / 46 / 34	31 / 46 / 31	30 / 46 / 30

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (Thermally toughened or Heat
soaked thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir on Clearvision (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir on Clearvision (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir on Clearvision (Thermally toughened or Heat
soaked thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Clearvision-50 (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Clearvision-50**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Clearvision-50 characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30/43/42	30/43/41	30/43/41	30/43/40	30/43/39	30/43/38

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (Thermally toughened or Heat
soaked thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
25th of June 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (Thermally toughened or Heat
soaked thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
25th of June 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Lime 61 T (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Lime 61 T heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61 T heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 38 / 9	30 / 38 / 7

Brussels
25th of June 2010


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Lime 61 T Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 38 / 9	30 / 38 / 7

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldalda (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Emeraldalda**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Emeraldalda characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldal (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Emeraldal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Emeraldal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldalda (Thermally toughened or Heat soaked
thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Emeraldalda**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Emeraldalda characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Selva**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Selva**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Selva**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Oasis**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (heat strengthened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Oasis**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Oasis**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Aquamarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Aquamarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Aquamarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Bright Sepia**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Bright Sepia**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Bright Sepia**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Sienna**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Sienna**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Sienna**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Topaz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Topaz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Topaz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Titanium 37 T (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Titanium 37 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Titanium 37 T heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Titanium 37 T heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 5 / 5	32 / 4 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	25 / 38 / 13	20 / 37 / 10

Brussels
25th of June 2010


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Titanium 37 T Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Titanium 37 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 5 / 5	32 / 4 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	25 / 38 / 13	20 / 37 / 10

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Granit Grey (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Granit Grey**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Granit Grey (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Granit Grey**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stoprav Granit Grey (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stoprav Granit Grey**, intended to be used in buildings and construction works, following **EN 1096-4**

Stoprav Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	1C3	1C3	1C2	1C2	1C1	1C1
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Chroma**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Chroma**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (Thermally toughened or Heat soaked thermally
toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Chroma**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Reflex Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex Blue (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Reflex Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex Blue (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Reflex Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (annealed)**




We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultramarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultramarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (Thermally toughened or Heat soaked
thermally toughened)**




We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultramarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Metal Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal Blue (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Metal Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal Blue (Thermally toughened or Heat soaked
thermally toughened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Metal Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Indigo 48 T (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY INDIGO 48 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Indigo 48 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Indigo 48 T (Heat strengthened)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Indigo 48 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Indigo 48 T Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	53 / 5 / 6	46 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 38 / 8	23 / 38 / 6

Brussels
25th of August 2010


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Indigo 48 T (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY INDIGO 48 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Indigo 48 T Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	53 / 5 / 6	46 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 38 / 8	23 / 38 / 6

Brussels
 25th of August 2010


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (Thermally toughened or Heat soaked
thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Deep Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep Blue (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Deep Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep Blue (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Deep Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Marine Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine Blue (heat strengthened)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Marine Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine Blue (Thermally toughened or Heat soaked
thermally toughened)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Marine Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Stopsol



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Clear (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC CLEAR**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Clear characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Classic Clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Bronze (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC BRONZE**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Bronze characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ε_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
23rd of April 2008


 A. Jardin
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Bronze Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC BRONZE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Classic Bronze Heat strengthened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
01st of September 2006


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC BRONZE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	1C3	1C3	1C2
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Dark Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC DARK BLUE**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ε_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
27th of October 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Dark Blue Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC DARK BLUE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Classic Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
27th of October 2008


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC DARK BLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
 27th of October 2008

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Green (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREEN**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Green characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Green Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Classic Green Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Grey (annealed)**




We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREY**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Grey characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Classic Grey Heat strengthened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
01st of September 2006


JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL CLASSIC GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Phoenix Clear (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX CLEAR**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Phoenix Clear characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
05th of November 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Phoenix Clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Phoenix Clear Heat strengthened characteristics in	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
05th of November 2009


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Phoenix Clear Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2/14179-2**

Stopsol Phoenix Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Phoenix Green (annealed)**




We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREEN**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Phoenix Green characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
05th of November 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Phoenix Green Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Phoenix Green Heat strengthened characteristics in	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
05th of November 2009


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Stopsol Phoenix Green Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Phoenix Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Phoenix Grey (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREY**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Phoenix Grey characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Phoenix Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Phoenix Grey Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
05th of November 2009


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL PHOENIX GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Silverlight PrivaBlue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SILVERLIGHT PRIVABLUE**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Silverlight PrivaBlue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Silverlight PrivaBlue Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SILVERLIGHT PRIVABLU** Heat strengthened, intended to be used in buildings and construction works, following EN 1863-2

Stopsol Silverlight PrivaBlue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
01st of September 2006


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Stopsol Silverlight PrivaBlue Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SILVERLIGHT PRIVABLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Silverlight PrivaBlue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Supersilver Clear (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER CLEAR**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Supersilver Clear characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver Clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Supersilver Clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Supersilver Green (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER GREEN**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Supersilver Green characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver Green Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Supersilver Green Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Supersilver Grey (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL Supersilver Grey**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Supersilver Grey characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL Supersilver Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Supersilver Grey Heat strengthened characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
09th of January 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL Supersilver Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following EN 12150-2 / 14179-2

Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Supersilver Dark Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER DARK BLUE**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Supersilver Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver Dark Blue Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER DARK BLUE Heat strengthened**, intended to be used in buildings and construction works, following EN 1863-2

Stopsol Supersilver Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
05th of Juli 2007


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPSOL SUPERSILVER DARK BLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
 05th of Juli 2007

JL. Batkin
 Vice-President, Processed Glass Division

Stratobel



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel clear (22.x, 33.x)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	22.1	22.2	33.1	33.2	33.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	NPD
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	79 / 7 / 7	77 / 7 / 7	76 / 7 / 7	74 / 7 / 7	72 / 7 / 7

Brussels
27th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel clear (44.x, 55.x)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	44.1	44.2	44.4	44.6	55.1	55.2	55.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	P3A-P4A	P5A	NPD	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (-1, -2)	35 (-1, -3)	NPD	35 (-1, -3)	35 (-1, -3)	NPD	36 (-1, -4)
11. Thermal properties:							
- U-value (EN 673)	5,6	5,6	5,5	5,3	5,6	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7	70 / 7 / 7	69 / 7 / 7	67 / 7 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel clear (66.x, 88.x, 10 10.x)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	66.1	66.2	66.4	66.6	88.2	88.4	10 10.2	10 10.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	P3A-P4A	P5A	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	36 (-1, -3)	37 (-1, -4)	NPD	39 (-1, -3)	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,5	5,4	5,3	5,2	5,3	5,2	5,2	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	84 / 8 / 8	84 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 7 / 7	66 / 7 / 7	65 / 6 / 6	64 / 6 / 6	62 / 6 / 6	60 / 6 / 6	58 / 6 / 6	56 / 6 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Linea Azzurra (88.x, 10 10.x)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL LINEA AZZURRA**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Linea Azzurra characteristics in :	88.2	88.4	10 10.2	10 10.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	39 (-1, -3)	NPD	NPD	NPD
11. Thermal properties:				
- U-value (EN 673)	5,3	5,2	5,2	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 7 / 7	82 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	55 / 6 / 6	53 / 6 / 6	50 / 6 / 6	49 / 6 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top N



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL TOP N**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top N characteristics in :	33.1 Top N	33.2 Top N	44.1 Top N	44.2 Top N	66.1 Top N	66.2 Top N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8	85 / 6 / 8	84 / 6 / 8	83 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 25 / 18	59 / 25 / 17	58 / 25 / 17	58 / 25 / 16	56 / 24 / 15	56 / 24 / 14

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top N+**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL TOP N+**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top N+ characteristics in :	22.1 Top N+	22.2 Top N+	33.1 Top N+	33.2 Top N+	44.1 Top N+	44.2 Top N+	66.1 Top N+	66.2 Top N+
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87/6/8	87/6/8	86/6/7	86/6/7	85/6/7	85/6/7	83/6/7	83/6/7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	57/29/22	56/29/21	55/29/20	54/29/19	53/29/18	53/29/18	50/29/16	50/29/15

Brussels
27th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Tri**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL Tri**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Tri characteristics in :	22.1 Tri	22.2 Tri	33.1 Tri	33.2 Tri	44.1 Tri	44.2 Tri	55.2 Tri	66.2 Tri
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,07	0,07	0,07	0,07	0,07	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88/7/8	88/7/8	87/7/8	87/7/8	86/7/8	86/6/8	84/6/8	84/6/8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68/17/13	68/17/12	66/17/12	65/17/11	64/16/11	63/16/11	60/16/10	59/16/10

Brussels
27th of October 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top 1.0**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL Top 1.0**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top 1.0 characteristics in :	33.1 Top 1.0	33.2 Top 1.0	44.1 Top 1.0	44.2 Top 1.0	66.1 Top 1.0	66.2 Top 1.0
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 15 / 17	76 / 15 / 17	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 42 / 30	44 / 42 / 29	44 / 42 / 28	43 / 42 / 27	42 / 42 / 24	42 / 42 / 23

Brussels
11th of June 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel I-Top**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL I-TOP**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel I-Top characteristics in :	33.1 I-Top	33.2 I-Top	44.1 I-Top	44.2 I-Top	55.1 I-Top	55.2 I-Top	66.2 I-Top
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:							
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 6 / 7	84 / 6 / 8	83 / 6 / 8	83 / 6 / 8	82 / 6 / 8	82 / 6 / 8	81 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	51 / 32 / 20	50 / 32 / 19	49 / 32 / 18	49 / 32 / 17	48 / 32 / 16	47 / 32 / 15	46 / 32 / 15

Brussels
4th of December 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Energy N**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL ENERGY N**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Energy N characteristics in :	33.1 Energy N	33.2 Energy N	44.1 Energy N	44.2 Energy N	66.1 Energy N	66.2 Energy N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	78/6/7	77/ 6/7	77/6/7	77/6/7	75/6/7	75/6/7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42/38/24	42/38/23	41/38/22	41/38/21	39/38/18	39/38/18

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel G**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL G**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel G characteristics in :	33.1 G	33.2 G	44.1 G	44.2 G	66.1 G	66.2 G
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	3,7	3,6	3,6	3,6	3,6	3,6
- Normal emissivity ϵ_n (EN 12898)	0,15	0,15	0,15	0,15	0,15	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 12 / 11	80 / 12 / 11	80 / 11 / 11	79 / 11 / 10	78 / 11 / 10	77 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 12 / 9	64 / 12 / 9	63 / 12 / 9	62 / 11 / 9	58 / 11 / 9	58 / 11 / 8

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Burglar resistant)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	002-2	303-3	402-3	502-1	502-2	802-2	803-5	905-8
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P5A	P7B	P5A	P6B	P6B	P6B	P8B	P8B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,4	5,0	5,2	5,1	5,1	5,1	4,8	4,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	82 / 7 / 7	84 / 8 / 8	84 / 8 / 8	84 / 8 / 8	82 / 7 / 7	78 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 7 / 7	55 / 6 / 6	64 / 6 / 6	63 / 6 / 6	63 / 6 / 6	60 / 6 / 6	51 / 6 / 6	38 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	003-2	003-5	004-3
Notified Body / Certificate Number:	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR1 S	BR1 NS	BR3 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P6B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	5,2	5,2	4,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8	83 / 8 / 8	79 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	59 / 6 / 6	49 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	103-3	104-1	402-1
Certificate Number:	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR2 S	BR2 NS	BR1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P6B	P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,9	4,8	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	78 / 7 / 7	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	58 / 6 / 6	49 / 6 / 6	66 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	504-4	603-1	703-3
Certificate Number:	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR5 S/SG2 S	BR3S	BR2 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P6B	P3A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,5	4,9	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	74 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 5 / 5	52 / 6 / 6	53 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	704-3	803-6	902-4
Certificate Number :	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR3 NS	BR2 S	BR1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P6B	NPD	P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,6	4,9	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	74 / 7 / 7	79 / 7 / 7	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 5 / 5	51 / 6 / 6	60 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	902-5
Certificate Number :	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	NPD
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	BR1 S
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	P3A
7. Pendulum body impact resistance (EN 12600)	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	003-1	009-1	304-6
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR2 S	BR7 NS	BR4 S / SG1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P2A	P8B	P6B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	5,1	3,6	4,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8	62 / 6 / 6	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	58 / 6 / 6	27 / 5 / 5	48 / 6 / 6

Brussels
07th of February 2008

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	408-1	802-5	806-2
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR6 NS	BR1 NS	BR5 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P2A	P7B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	3,9	5,2	4,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 6 / 6	84 / 8 / 8	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 5 / 5	60 / 6 / 6	36 / 5 / 5

Brussels
07th of February 2008

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 1279-5**

Stratobel characteristics in :	1207-1	3209-1	4207-1
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR4 NS / BR6 S	BR6 NS	BR5 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P4A	P6B	NPD
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	2,6	2,4	2,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	65 / 12 / 12	58 / 11 / 11	65 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 8 / 8	27 / 7 / 7	33 / 8 / 8

Brussels
07th of February 2008

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 1279-5**

Stratobel characteristics in :	6208-1	8209-1	9207-1
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR7 S	BR7 NS	SG1 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P8B	P4A
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	2,4	2,3	2,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 11 / 11	57 / 11 / 11	62 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29 / 8 / 8	25 / 7 / 7	31 / 8 / 8

Brussels
07th of February 2008

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 1279-5**

Stratobel characteristics in :	9208-1
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	NPD
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	SG2 NS
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	P8B
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	2,3
- Normal emissivity ϵ_n (EN 12898)	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 11 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 7 / 7

Brussels
07th of February 2008


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Standard**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR STANDARD**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color standard characteristics in :	33.1 Blue green 3773	33.1 Bronze 6542	33.1 French Bronze 5538	33.1 Medium bronze 3628	33.1 Grey 6544
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	54 / 6 / 6	58 / 6 / 6	29 / 5 / 5	42 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 6 / 6	53 / 6 / 6	57 / 6 / 6	32 / 5 / 5	48 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Standard**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR STANDARD**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color standard characteristics in :	33.1 Mat 2165	33.2 Mat 2165	44.1 Mat 2165	44.2 Mat 2165
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A–P2A	NPD	P1A–P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)
11. Thermal properties:				
- U-value (EN 673)	5,7	5,6	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 12 / 12	68 / 12 / 12	66 / 12 / 12	67 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 10 / 10	61 / 10 / 10	59 / 10 / 10	59 / 10 / 10

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainnbow**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR RAINBOW**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color rainbow characteristics in :	33.1 Vanceva 1 Coral Rose	33.1 Vanceva 2 Aquamarine	33.1 Vanceva 3 Smoke Grey	33.1 Vanceva 4 Sahara Sun	33.1 Vanceva 5 Ruby Red
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 7 / 7	79 / 7 / 7	78 / 7 / 7	77 / 7 / 7	48 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	71 / 7 / 7	69 / 7 / 7	62 / 6 / 6	63 / 6 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainbow**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR RAINBOW**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color rainbow characteristics in :	33.1 Vanceva 6 Sapphire	33.1 Vanceva 7 Midnight	33.1 Vanceva 8 Golden light	33.1 Vanceva 9 Artic Snow	44.1 Vanceva 9 Artic Snow
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	34 (-1, -2)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 6 / 6	50 / 5 / 5	86 / 8 / 8	67 / 12 / 12	66 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	57 / 6 / 6	48 / 5 / 5	70 / 7 / 7	61 / 10 / 10	59 / 10 / 10

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainbow**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR RAINBOW**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color rainbow characteristics in :	33.1 Vanceva A Cool White	44.1 Vanceva A Cool White	33.2 Vanceva C003 Pure White	33.1 Vanceva C Deep Red	33.1 Vanceva D True Blue
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P1A–P2A	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	1B1	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	34 (-1, -2)	NPD	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 9 / 9	82 / 9 / 9	8 / 63 / 63	16 / 5 / 5	14 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	72 / 8 / 8	70 / 8 / 8	8 / 47 / 47	35 / 5 / 5	41 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Stratobel EVA



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel EVA**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL EVA**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel EVA characteristics with tempered components:	55.2T	66.2T	68.2T	88.2T	10 10.3T	12 12.3T	15 15.4T
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:							
- U-value (EN 673)	5,5	5,4	5,4	5,3	5,2	5,1	4,9
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	85 / 8 / 8	84 / 8 / 8	83 / 8 / 8	81 / 7 / 7	80 / 7 / 7	77 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 7 / 7	65 / 6 / 6	63 / 6 / 6	61 / 6 / 6	55 / 6 / 6	52 / 6 / 6	47 / 6 / 6

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Stratobel Impression



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Impression**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL Impression**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Impression characteristics:	33.3	44.3	55.3	66.3	88.3	10 10.3
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
11th of September 2007

JL. Batkin
Vice-President, Processed Glass Division

Stratobel PC



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (Burglar resistant)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL PC**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel PC characteristics in :	214.541	216.541	219.841
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P6B	P7B	P8B
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U_g -value (EN 673)	5,3	5,3	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 8 / 8	84 / 8 / 8	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 7 / 7	65 / 7 / 7	64 / 6 / 6

Brussels
17th of July 2007


JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (Bullet resistant)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL PC**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel PC characteristics in :	810.361	815.051	819.070	823.860
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR1 NS	BR2 NS	BR3 NS	BR4 NS / SG1 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD
11. Thermal properties:				
- Ug-value (EN 673)	5,3	5,3	5,2	5,0
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 8 / 8	85 / 8 / 8	83 / 8 / 8	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 6 / 6	65 / 6 / 6	60 / 6 / 6	54 / 6 / 6

Brussels
17th of July 2007


JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (Bullet resistant)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL PC**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel PC characteristics in :	835.800	841.370	869.600
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR5 NS / SG2 NS	BR6 NS	BR7 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U_g -value (EN 673)	4,7	4,5	3,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 7 / 7	74 / 7 / 7	58 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	46 / 6 / 6	43 / 5 / 5	25 / 5 / 5

Brussels
17th of July 2007


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel PC (Bullet resistant) in DGU**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL PC**, intended to be used in buildings and construction works, following **EN 1279-5**

Stratobel PC characteristics in :	848i560	890i100
Certificate Number:	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	BR6 NS	BR7 NS
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- Ug-value (EN 673)	2,6	2,3
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 13	56 / 11 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 10 / 10	26 / 7 / 7

Brussels
17th of July 2007


 JL. Batkin
 Vice-President, Processed Glass Division

Stratobel – Other products



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 3)**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel (level 3 products) characteristics in :	<p align="center">For 13 characteristics, see www.YourGlass.com/ce</p>
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
08th of November 2007


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 1)**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel (level 1 products) characteristics in :	
Certificate Number:	0336-CPD-9265C
Notified Body :	0336
1. Resistance to fire (EN 13501-2)	<p align="center">For 13 characteristics, see www.YourGlass.com/ce</p>
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
08th of November 2007


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 3)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel (level 3 products) characteristics in :	<p align="center">For 13 characteristics, see www.YourGlass.com/ce</p>
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 1)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel (level 1 products) characteristics in :	
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	For 13 characteristics, see www.YourGlass.com/ce
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division

Stratophone



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone clear (33.x, 44.x)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone characteristics in :	33.1	33.2	44.1	44.2	44.4	44.6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	P3A-P4A	P5A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	37 (0, -3)	NPD
11. Thermal properties:						
- U-value (EN 673)	5,7	5,6	5,6	5,6	5,5	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	76 / 7 / 7	74 / 7 / 7	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7

Brussels
 05th of November 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone clear (55.x, 66.x, 88.x)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone characteristics in :	55.1	55.2	66.1	66.2	88.2
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (-1, -3)	39 (-1, -3)	40 (-1, -3)	40 (-1, -3)	41 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,6	5,5	5,5	5,4	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8	84 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 7 / 7	69 / 7 / 7	68 / 7 / 7	66 / 7 / 7	62 / 6 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Top N**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Top N**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top N characteristics in :	33.1 Top N	33.2 Top N	44.1 Top N	44.2 Top N	66.1 Top N	66.2 Top N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8	85 / 6 / 8	84 / 6 / 8	83 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 25 / 18	59 / 25 / 17	58 / 25 / 17	58 / 25 / 16	56 / 24 / 15	56 / 24 / 14

Brussels
05th of November 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Top N+**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Top N+**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top N+ characteristics in :	33.1 Top N+	33.2 Top N+	44.1 Top N+	44.2 Top N+	66.1 Top N+	66.2 Top N+
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 7	86 / 6 / 7	85 / 6 / 7	85 / 6 / 7	83 / 6 / 7	83 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	55 / 29 / 20	54 / 29 / 19	53 / 29 / 18	53 / 29 / 18	50 / 29 / 16	50 / 29 / 15

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Tri**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Tri**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Tri characteristics in :	33.1 Tri	33.2 Tri	44.1 Tri	44.2 Tri	55.2 Tri	66.2 Tri
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,07	0,07	0,07	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 7 / 8	87 / 7 / 8	86 / 7 / 8	86 / 6 / 8	84 / 6 / 8	84 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 17 / 12	65 / 17 / 11	64 / 16 / 11	63 / 16 / 11	60 / 16 / 10	59 / 16 / 10

Brussels
05th of November 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone I-Top**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE I-TOP**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone I-Top characteristics in :	33.1 I-Top	44.1 I-Top	44.2 I-Top
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	37 (-0, -3)	37 (0, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 6 / 7	83 / 6 / 8	83 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	51 / 32 / 20	49 / 32 / 18	49 / 32 / 17

Brussels
4th of December 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Top 1.0**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Top 1.0**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top 1.0 characteristics in :	33.1 Top 1.0	33.2 Top 1.0	44.1 Top 1.0	44.2 Top 1.0	66.1 Top 1.0	66.2 Top 1.0
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 15 / 17	76 / 15 / 17	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 42 / 30	44 / 42 / 29	44 / 42 / 28	43 / 42 / 27	42 / 42 / 24	42 / 42 / 23

Brussels
05th of November 2010


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Energy N**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Energy N**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Energy N characteristics in :	33.1 Energy N	33.2 Energy N	44.1 Energy N	44.2 Energy N	66.1 Energy N	66.2 Energy N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	78 / 6 / 7	77 / 6 / 7	77 / 6 / 7	77 / 6 / 7	75 / 6 / 7	75 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 24	42 / 38 / 23	41 / 38 / 22	41 / 38 / 21	39 / 38 / 18	39 / 38 / 18

Brussels
05th of November 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Sunergy



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Clear (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY CLEAR**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Clear characteristics in :	3 mm	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Clear Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY CLEAR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Clear Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy Clear Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Azur (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY AZUR**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Azur characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 10 / 8	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 10 / 7	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Azur Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY AZUR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Azur Heat strengthened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Thermally toughened glass - EN 12150-2
 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
 Declaration of performances
 Sunergy Azur Thermally toughened or Heat soaked thermally toughened**



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY AZUR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Azur Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Dark Blue (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY Dark blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Dark Blue Heat strengthened**



We

**AGC Flat Glass Europe
Division Processed Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY DARK BLUE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
01st of September 2006


 JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Green (annealed)**




We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREEN**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Green characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
23rd of April 2008


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Green Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Green Heat strengthened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy Green Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Grey (annealed)**



We

**AGC Flat Glass Europe
Division Raw Glass Products**
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREY**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Grey characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
17th of June 2009


 A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Grey Heat strengthened**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Grey Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
17th of June 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy Grey Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SUNERGY GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
 17th of June 2009

JL. Batkin
 Vice-President, Processed Glass Division

Thermally toughened glass for Shower enclosure



**CE Marking of Thermally toughened glass for Shower enclosure
EN 14428**

Planibel Thermally toughened for shower enclosure



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL Thermally toughened**, intended to be used in Shower enclosure, following **EN 14428**

Planibel Thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
Cleanability			Pass		
Impact resistance / Shatter properties			Pass		
Durability			Pass		

Brussels
04th of December 2008

JL. Batkin
Vice-President, Processed Glass Division

Thermobel



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel (level 3 products)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **THERMOBEL**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel (level 3 products) characteristics in :	For 13 characteristics, see www.YourGlass.com/ce
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
09th of March 2007


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel (level 1 products)**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **THERMOBEL**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel (level 1 products) characteristics in :	
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	For 13 characteristics, see www.YourGlass.com/ce
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
09th of March 2007


 JL. Batkin
 Vice-President, Processed Glass Division

Thermobel VIP



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	4-16-4 (VIP 14 mm)	4-20-4 (VIP 18 mm)	4-22-4 (VIP 20 mm)	6-16-4 (VIP 14 mm)	6-20-4 (VIP 18 mm)	6-22-4 (VIP 20 mm)
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
08th of April 2010

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	6-16-6 (VIP 14 mm)	6-20-6 (VIP 18 mm)	6-22-6 (VIP 20 mm)	6-42-6 (VIP 40 mm)
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	35 (-1, -3)	NPD
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
08th of April 2010


 JL. Batkin
 Vice-President, Processed Glass Division



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	4-16-4* (VIP 14 mm)	4-20-4* (VIP 18 mm)	4-22-4* (VIP 20 mm)	6-16-4* (VIP 14 mm)	6-20-4* (VIP 18 mm)	6-22-4* (VIP 20 mm)
	* glass glued with a steel plate of 0,75 mm					
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	38 (-2, -5)
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
08th of April 2010

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP**



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	4*-16-4* (VIP 14 mm)	4*-20-4* (VIP 18 mm)	4*-22-4* (VIP 20 mm)	6-16-6** (VIP 14 mm)	6-20-6** (VIP 16 mm)	6-22-6** (VIP 14 mm)
	* glass glued with a steel plate of 0,75 mm / ** glass glued with a steel plate of 2 mm					
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	42 (-2, -5)
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
08th of April 2010

JL. Batkin
Vice-President, Processed Glass Division

Translations

English → čeština

CE Marking	CE značení
Characteristics	Vlastnosti
Resistance to fire	Odolnost proti požáru
Reaction to fire	Reakce na požár
External fire performance	Vlastnosti při konfrontaci s požárem
Bullet resistance	Odolnost proti průstřelu
Explosion resistance	Odolnost proti explozi
Burglar resistance	Odolnost proti vloupání
Pendulum body impact resistance	Odolnost proti nárazu vyvolaného lidským tělem
Resistance against sudden temperature changes and temperature differentials	Odolnost proti náhlým změnám teplot a teplotním rozdílům
Wind, snow, permanent and imposed load resistance	Odolnost proti zátěži-vítr, sněž- trvalému a užitnému zatížení
Direct airborne sound insulation	Izolace proti přímému hluku z letecké dopravy
Thermal properties	Termické vlastnosti
Emissivity	Emisivita
U-value	Koeficient U
Radiation properties	Vlastnosti záření
Light transmission	Prostup světla
Light reflection	Světelná reflexe
Solar energy transmission	Propustnost slunečního záření
Solar energy reflection	Reflexe slunečního záření

Basic soda lime silicate float glass	Základní sodnovápenatokřemičité float sklo
Basic soda lime silicate patterned glass	Základní sodnovápenatokřemičité ornamentní sklo
Basic soda lime silicate wired patterned glass	Základní sodnovápenatokřemičité ornamentní sklo s drátěnou vložkou
Coated glass	Sklo s povlakem
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Tepelně tvrzené sodnovápenatokřemičité bezpečnostní sklo
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Sodnovápenatokřemičité bezpečnostní tvrzené sklo- s HST
Heat strengthened soda lime silicate glass	Tepelně zpevněné sodnovápenatokřemičité sklo
Insulating glass units	Izolační skla
Laminated glass and laminated safety glass	Vrstvená skla a vrstvená bezpečnostní skla
Fire resistant glass	Protipožární sklo

English → Dansk

CE Marking	CE mærkning
Characteristics	Karakteristik
Resistance to fire	Modstand mod brand
Reaction to fire	Reaktion ved brand
External fire performance	Ekstern brandmodstand
Bullet resistance	Modstand mod skud
Explosion resistance	Modstand mod eksplosion
Burglar resistance	Modstand mod indbrud
Pendulum body impact resistance	Pendultest (personsikkerhed)
Resistance against sudden temperature changes and temperature differentials	Modstand mod pludselige temperatursvingninger og temperaturgradienter
Wind, snow, permanent and imposed load resistance	Vind-, sne- og langtidslast
Direct airborne sound insulation	Direkte luftbåren Lydreduktion
Thermal properties	Varmeisolering
Emissivity	Emissivitet
U-value	U-værdi
Radiation properties	Strålingsegenskaber
Light transmission	Sollystransmittans
Light reflection	Sollysreflektans
Solar energy transmission	Solenergitransmittans
Solar energy reflection	Solenergireflektans

Basic soda lime silicate float glass	Kalk-soda-silikat floatglas
Basic soda lime silicate patterned glass	Kalk-soda-silikat ornament glas
Basic soda lime silicate wired patterned glass	Kalk-soda-silikat ornament trådglass
Coated glass	Belagt glas
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termisk hærdet glas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heat soaked termisk hærdet kalk-soda-silikat glas
Heat strengthened soda lime silicate glass	Varmeforstærket glas
Insulating glass units	Termoruder
Laminated glass and laminated safety glass	Lamineret glas og lamineret sikkerhedsglas
Fire resistant glass	Brandbeskyttende glas

English → Deutsch

CE Marking	CE Kennzeichnung
Characteristics	Eigenschaften
Resistance to fire	Feuerwiderstand
Reaction to fire	Brandverhalten
External fire performance	Verhalten bei Beanspruchung durch Feuer von außen
Bullet resistance	Durchschusshemmung
Explosion resistance	Sprengwirkungshemmung
Burglar resistance	Einbruchhemmung
Pendulum body impact resistance	Pendelschlagwiderstand
Resistance against sudden temperature changes and temperature differentials	Beständigkeit gegen plötzliche Temperaturwechsel und Temperaturunterschiede
Wind, snow, permanent and imposed load resistance	Beständigkeit gegen plötzliche Temperaturwechsel und Temperaturunterschiede
Direct airborne sound insulation	Direkte Luftschalldämmung
Thermal properties	Thermische Eigenschaften
Emissivity	Emissivität
U-value	U-Wert
Radiation properties	Strahlungsphysikalische Eigenschaften
Light transmission	Lichttransmission
Light reflection	Lichtreflexion
Solar energy transmission	Energietransmission
Solar energy reflection	Energireflexion

Basic soda lime silicate float glass	Gefloatetes Natronkalk-Silicatglas
Basic soda lime silicate patterned glass	Ornamentglas aus Natronkalk-Silicatglas
Basic soda lime silicate wired patterned glass	Drahtornamentglas aus Natronkalk-Silicatglas
Coated glass	Beschichtetes Glas
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Thermisch vorgespanntes Kalknatron-Einscheibensicherheitsglas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heißgelagertes thermisch vorgespanntes Kalknatron-Einscheibensicherheitsglas
Heat strengthened soda lime silicate glass	Teilvorgespanntes Kalknatronglas
Insulating glass units	Isolierglas
Laminated glass and laminated safety glass	Verbundglas und Verbundsicherheitsglas
Fire resistant glass	Feuerbeständiges Glas

English → eesti keel

CE Marking	CE märgistus
Characteristics	Omadused
Resistance to fire	Tulekindlus
Reaction to fire	Põlevus
External fire performance	Vastupidavus välisele tulele
Bullet resistance	Kuulikindlus
Explosion resistance	Plahvatuskindlus
Burglar resistance	Vandalismikindlus
Pendulum body impact resistance	Vastupidavus pehme keha löögile (pendeltest)
Resistance against sudden temperature changes and temperature differentials	Vastupidavus järskudele temperatuurimuutustele ja temperatuuri erinevustele
Wind, snow, permanent and imposed load resistance	Vastupidavus tuule-, lume-, püsi- ja kasuskoormusele
Direct airborne sound insulation	Otsene õhuheli isolatsioon
Thermal properties	Soojuslikud omadused
Emissivity	Emissiivsus
U-value	U-väärtus
Radiation properties	Kiirguslikud omadused
Light transmission	Valguse läbivus
Light reflection	Valguse peegeldus
Solar energy transmission	Päikeseenergia läbivus
Solar energy reflection	Päikeseenergia peegeldus

Basic soda lime silicate float glass	Lubi-liiv-floatklaas
Basic soda lime silicate patterned glass	Lubi-liiv-ornamentklaas
Basic soda lime silicate wired patterned glass	Sarrustatud Lubi-liiv-ornamentklaas
Coated glass	Pindkattega klaas
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termiliselt karastatud lubi-liiv-turvaklaas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heat soaked termiliselt karastatud lubi-liiv-turvaklaas
Heat strengthened soda lime silicate glass	Termiliselt tugevdatud lubi-liivklaas
Insulating glass units	Klaaspakett
Laminated glass and laminated safety glass	Lamineeritud klaas ja lamineeritud turvaklaas
Fire resistant glass	Tuletõkkeklaas

English → ελληνικά

CE Marking	Σημα CE
Characteristics	Χαρακτηριστικά
Resistance to fire	Αντίσταση στην φωτιά
Reaction to fire	Αντίδραση στην φωτιά
External fire performance	Επίδοση σε εξωτερική φωτιά
Bullet resistance	Αντίσταση σε σφαίρα
Explosion resistance	Αντίσταση σε εκρηξη
Burglar resistance	Αντίσταση σε διάρρηξη
Pendulum body impact resistance	Αντίσταση σε κρούση εκκρεμών αντικειμένων
Resistance against sudden temperature changes and temperature differentials	Αντίσταση κατά ξαφνικών αλλαγών θερμοκρασίας και διαφορών θερμοκρασιών
Wind, snow, permanent and imposed load resistance	Μονιμή και επιβαλλόμενη αντίσταση σε ανεμοπίεση και πίεση χιονιού
Direct airborne sound insulation	Μόνωση κατά απευθείας αερομεταφερομένου θορύβου
Thermal properties	Θερμικές ιδιότητες
Emissivity	Εκπομπή
U-value	Συντελεστής θερμοαγωγιμότητας
Radiation properties	Ιδιότητες ακτινοβολίας
Light transmission	Μεταδοση φωτός
Light reflection	Αντανάκλαση φωτός
Solar energy transmission	Μεταδοση ηλιακής ενέργειας
Solar energy reflection	Αντανάκλαση ηλιακής ενέργειας

Basic soda lime silicate float glass	Βασικό γυαλί σόδας
Basic soda lime silicate patterned glass	Βασικό εκτυπωμένο γυαλί σόδας (διαμαντέ)
Basic soda lime silicate wired patterned glass	Βασικό εκτυπωμένο γυαλί σόδας με σύρμα
Coated glass	Επιστρωμένος υαλοπίνακας
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Θερμικά σκληρημένο βασικό γυαλί σόδας ασφαλείας
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Θερμικά εμποτισμένου σκληρημένου βασικού γυαλιού σόδας ασφαλείας
Heat strengthened soda lime silicate glass	Θερμικά ενισχυμένο βασικό γυαλί σόδας
Insulating glass units	Δίπλοι μονωτικοί υαλοπίνακες
Laminated glass and laminated safety glass	Λαμιναρισμένος υαλοπίνακας και λαμιναρισμένος υαλοπίνακας ασφαλείας
Fire resistant glass	Πυραντοχος υαλοπίνακας

English → español

CE Marking	Marcado CE
Characteristics	Características
Resistance to fire	Resistencia al fuego
Reaction to fire	Reacción al fuego
External fire performance	Prestaciones de comportamiento frente a fuego exterior
Bullet resistance	Resistencia a las balas
Explosion resistance	Resistencia a las explosiones
Burglar resistance	Resistencia a la agresión
Pendulum body impact resistance	Resistencia al impacto de cuerpo pendular
Resistance against sudden temperature changes and temperature differentials	Resistencia a variaciones bruscos de temperatura y a temperaturas diferenciales
Wind, snow, permanent and imposed load resistance	Resistencia a las cargas de viento y nieve, y a las cargas permanentes e impuestas
Direct airborne sound insulation	Aislamiento al ruido aéreo directo
Thermal properties	Propiedades térmicas
Emissivity	Emisividad
U-value	Valor U
Radiation properties	Propiedades ante la radiación
Light transmission	Transmisión luminosa
Light reflection	Reflexión luminosa
Solar energy transmission	Transmisión de la energía solar
Solar energy reflection	Reflexión de la energía solar

Basic soda lime silicate float glass	Vidrio flotado de base silicato sodo-cálcico
Basic soda lime silicate patterned glass	Vidrio impreso de base silicato sodo-cálcico
Basic soda lime silicate wired patterned glass	Vidrio impreso armado de base silicato sodo-cálcico
Coated glass	Vidrio de capa
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Vidrio de silicato sodo-cálcico de seguridad templado térmicamente
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Vidrio de silicato sodo-cálcico de seguridad templado y con tratamiento Heat Soak
Heat strengthened soda lime silicate glass	Vidrio de silicato sodo-cálcico de seguridad termoendurecido
Insulating glass units	Unidad de vidrio aislante
Laminated glass and laminated safety glass	Vidrio laminado y vidrio laminado de seguridad
Fire resistant glass	Vidrio resistente al fuego

English → français

CE Marking	Marquage CE
Characteristics	Caractéristiques
Resistance to fire	Résistance au feu
Reaction to fire	Réaction au feu
External fire performance	Performances de comportement vis-à-vis d'un feu extérieur
Bullet resistance	Résistance aux balles
Explosion resistance	Résistances aux explosions
Burglar resistance	Résistance aux effractions
Pendulum body impact resistance	Résistance à l'impact d'un pendule
Resistance against sudden temperature changes and temperature differentials	Résistances aux variations brutales de température et aux températures différentielles
Wind, snow, permanent and imposed load resistance	Résistance aux charges dues au vent et à la neige, aux charges permanentes et imposées
Direct airborne sound insulation	Isolation au bruit aérien direct
Thermal properties	Propriétés thermiques
Emissivity	Emissivité
U-value	Coefficient U
Radiation properties	Propriétés de rayonnement
Light transmission	Transmission lumineuse
Light reflection	Réflexion lumineuse
Solar energy transmission	Transmission du rayonnement solaire
Solar energy reflection	Reflexion du rayonnement solaire

Basic soda lime silicate float glass	Verre float de silicate sodo-calcique de base
Basic soda lime silicate patterned glass	Verre imprimé de silicate sodo-calcique de base
Basic soda lime silicate wired patterned glass	Verre imprimé armé de silicate sodo-calcique de base
Coated glass	Verre à couche
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Verre de silicate sodo-calcique de sécurité trempé thermiquement
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Verre de silicate sodo-calcique de sécurité trempé et traité Heat Soak
Heat strengthened soda lime silicate glass	Verre de silicate sodo-calcique durci thermiquement
Insulating glass units	Vitrage isolant préfabriqué scellé
Laminated glass and laminated safety glass	Verre feuilleté et verre feuilleté de sécurité
Fire resistant glass	Verre résistant au feu

English → Italiano

CE Marking	Marcatura CE
Characteristics	Caratteristiche
Resistance to fire	Resistenza al fuoco
Reaction to fire	Reazione al fuoco
External fire performance	Resistenza al fuoco proveniente dall'esterno
Bullet resistance	Resistenza ai proiettile
Explosion resistance	Resistenza all' esplosione
Burglar resistance	Resistenza agli attacchi manuali
Pendulum body impact resistance	Resistenza agli urti (Prova del pendolo)
Resistance against sudden temperature changes and temperature differentials	Resistenza agli sbalzi improvvisi di temperatura e alle differenze di temperatura
Wind, snow, permanent and imposed load resistance	Resistenza a carichi di vento, neve e ai carichi permanti
Direct airborne sound insulation	Isolamento al rumore aereo diretto
Thermal properties	Proprietà termiche
Emissivity	Emissività
U-value	Valore U
Radiation properties	Proprietà di irraggiamento
Light transmission	Trasmissione luminosa
Light reflection	Riflessione luminosa
Solar energy transmission	Trasmissione energetica diretta
Solar energy reflection	Riflessione energetica

Basic soda lime silicate float glass	Prodotti di base di vetro di silicato sodio-calcico Vetro float
Basic soda lime silicate patterned glass	Prodotti di base di vetro di silicato sodio-calcico Vetro stampato
Basic soda lime silicate wired patterned glass	Prodotti di base di vetro di silicato sodio-calcico Vetro stampato armato
Coated glass	Vetri rivestiti
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Vetro di silicato sodio-calcico di sicurezza temprato termicamente
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Vetro di silicato sodio-calcico di sicurezza temprato e trattato Heat Soak
Heat strengthened soda lime silicate glass	Vetro di silicato sodio-calcico di indurito termicamente
Insulating glass units	Vetrate isolanti
Laminated glass and laminated safety glass	Vetro stratificato e vetro stratificato di sicurezza
Fire resistant glass	Vetro resistente al fuoco

English → latviešu valoda

CE Marking	Eiropas Padomes(EP) Marķējums
Characteristics	Raksturīgās īpašības
Resistance to fire	Ugunsizturīgs
Reaction to fire	Reaģē ar uguni
External fire performance	Ārējās uguns veiktspēja(izolācijas spēja)
Bullet resistance	Ložu necaurlaidīgs
Explosion resistance	Izturīgs pret eksploziju
Burglar resistance	Izturīgs pret ielaušanos un huligānismu
Pendulum body impact resistance	Izturīgs pret krītošu ķermeņu triecienu
Resistance against sudden temperature changes and temperature differentials	Izturīgs pret krasām temperatūras svārstībām un temperatūras atšķirībām
Wind, snow, permanent and imposed load resistance	Iztur vēja, sniega, pastāvīgas un īslaicīgas(pēkšņas) slodzes.
Direct airborne sound insulation	Tiešu aviācijas trokšņu izolācija
Thermal properties	Termiskās īpašības
Emissivity	Caurstarojums
U-value	Siltumcaurlaidības koeficienta U vērtība.
Radiation properties	Starojuma īpašības
Light transmission	Gaismas caurlaidība
Light reflection	Gaismas atstarošana
Solar energy transmission	Saules enerģijas caurlaidība
Solar energy reflection	Saules enerģijas atstarošana

Basic soda lime silicate float glass	Nātrija-kalcija silikātu float stikls
Basic soda lime silicate patterned glass	Nātrija-kalcija silikātu dekoratīvais stikls
Basic soda lime silicate wired patterned glass	Nātrija-kalcija silikātu dekoratīvais stikls ar stiebrojumu
Coated glass	Pārklāts stikls
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termiski rūdīts nātrija-kalcija silikātu drošības stikls
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Karstumā testēts (Heat-Soak test) termiski rūdīts nātrija-kalcija silikātu drošības stikls
Heat strengthened soda lime silicate glass	Termiski stiprināts nātrija-kalcija silikātu drošības stikls
Insulating glass units	Stikla pakete
Laminated glass and laminated safety glass	Laminēts stikls un laminēts aizsargstikls
Fire resistant glass	Ugunsizturīgs stikls

English → lietuviu kalba

CE Marking	CE žymėjimas
Characteristics	Charakteristikos
Resistance to fire	Atsparumas ugniai
Reaction to fire	Sąveika su ugnimi
External fire performance	Išorinės ugnies charakteristikos
Bullet resistance	Atsparumas šūviams
Explosion resistance	Atsparumas sprogamams
Burglar resistance	Atsparumas įsilaužimams
Pendulum body impact resistance	Atsparumas kintančiam kūnų poveikiui
Resistance against sudden temperature changes and temperature differentials	Atsparumas staigiam temperatūrų pasikeitimui ir temperatūrų skirtumams
Wind, snow, permanent and imposed load resistance	Atsparumas vėjo, sniego, pastovioms ir staigioms apkrovoms
Direct airborne sound insulation	Oru sklindančio garso izoliacija
Thermal properties	Šiluminės savybės
Emissivity	Emisija
U-value	U-reikšmė, šiluminio pralaidumo koeficientas
Radiation properties	Radiacinės savybės
Light transmission	Šviesos pralaidumas
Light reflection	Šviesos atspindėjimas
Solar energy transmission	Saulės energijos perdavimas
Solar energy reflection	Saulės energijos atspindėjimas

Basic soda lime silicate float glass	Plokščias kalcio natrio silikatinis stiklas
Basic soda lime silicate patterned glass	Raštuotas kalcio natrio silikatinis stiklas
Basic soda lime silicate wired patterned glass	Armuotas raštuotas kalcio natrio silikatinis stiklas
Coated glass	Stiklas su danga
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Terminiškai grūdintas kalcio natrio silikatinis stiklas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Terminiškai grūdintas ir karščiu (HST) testuotas saugus kalcio natrio silikatinis stiklas
Heat strengthened soda lime silicate glass	Karščiu sustiprintas kalcio natrio silikatinis stiklas
Insulating glass units	Stiklo paketas
Laminated glass and laminated safety glass	Laminuotas stiklas ir saugus laminuotas stiklas
Fire resistant glass	Ugniai atsparus stiklas

English → Magyar

CE Marking	CE-jelölés
Characteristics	tulajdonságok
Resistance to fire	tűzállóság
Reaction to fire	éghetőség
External fire performance	jellemzők kültéri tűz esetén
Bullet resistance	golyóállóság
Explosion resistance	robbanás-ellenállás
Burglar resistance	betörés- ellenállás
Pendulum body impact resistance	ingaütés-ellenás
Resistance against sudden temperature changes and temperature differentials	ellenállás a hirtelen hőmérsékletváltozásnak és nagy mértékű hőmérséklet különbségnek
Wind, snow, permanent and imposed load resistance	szél, hó, folytonos és ráhelyezett teherbírás
Direct airborne sound insulation	direkt léghanggátlás
Thermal properties	termikus tulajdonságok
Emissivity	emisszivitás
U-value	U-érték
Radiation properties	sugárzás
Light transmission	fényáteresztés
Light reflection	fényvisszaverés
Solar energy transmission	energia áteresztés
Solar energy reflection	energia visszaverés
g-value	g-érték

Basic soda lime silicate float glass	float üveg
Basic soda lime silicate patterned glass	katedrál üveg
Basic soda lime silicate wired patterned glass	drót üveg
Coated glass	bevonatos üveg
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	edzett üveg
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	"heat-soak" teszttel edzett biztonsági üveg
Heat strengthened soda lime silicate glass	előfeszített üveg
Insulating glass units	hőszigetelő üveg
Laminated glass and laminated safety glass	ragasztott és ragasztott biztonsági üveg
Fire resistant glass	tűzálló üveg

English → Nederlands

CE Marking	CE markering
Characteristics	Karakteristieken
Resistance to fire	Brandwering
Reaction to fire	Reactie op brand
External fire performance	Gedrag ten opzichte van uitwendige vuurhaard
Bullet resistance	Kogelwering
Explosion resistance	Explosiewering
Burglar resistance	Inbraakwering
Pendulum body impact resistance	Slingerproefweerstand
Resistance against sudden temperature changes and temperature differentials	Weerstand tegen plotse temperatuursverandering en temperatuursverschillen
Wind, snow, permanent and imposed load resistance	Weerstand tegen wind-, sneeuw- en permanente belasting
Direct airborne sound insulation	Directe luchtgeluidisolatie
Thermal properties	Thermische eigenschappen
Emissivity	Emissiviteit
U-value	U-waarde
Radiation properties	Stralingseigenschappen
Light transmission	Lichttransmissie
Light reflection	Lichtreflectie
Solar energy transmission	Zontoetreding
Solar energy reflection	Zonreflectie

Basic soda lime silicate float glass	Basisnatronkalk floatglas
Basic soda lime silicate patterned glass	Basisnatronkalk figuurglas
Basic soda lime silicate wired patterned glass	Basisnatronkalk figuurdraadglas
Coated glass	Gecoat glas
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Thermisch gehard natronkalkveiligheidsglas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Thermisch gehard natronkalk veiligheidsglas met heat soak test
Heat strengthened soda lime silicate glass	Thermisch versterkt natronkalkglas
Insulating glass units	Isolerend dubbel glas (IDG)
Laminated glass and laminated safety glass	Gelaagd glas en gelaagd veiligheidsglas
Fire resistant glass	Brandwerend glas

English → Noroks

CE Marking	CE merking
Characteristics	Betegnende
Resistance to fire	Brannhemmende
Reaction to fire	Reaksjon mot brann
External fire performance	Ekstern brannmotstand
Bullet resistance	Skuddhemmende
Explosion resistance	Eksplisjonshemmende
Burglar resistance	Innbruddshemmende
Pendulum body impact resistance	Pendultest(personsikkerhet)
Resistance against sudden temperature changes and temperature differentials	Motstand mot plutselige temperatursvingninger og temperaturforskjeller
Wind, snow, permanent and imposed load resistance	Vind-, Snø- og varig ilagt belastningsmotstand
Direct airborne sound insulation	Direkte luftbåren lydisolasjon
Thermal properties	Isoleringsegenskaper
Emissivity	Emissivitet
U-value	U-Verdi
Radiation properties	Strålingsegenskaper
Light transmission	Sollys transmisjon
Light reflection	Sollys refleksjon
Solar energy transmission	Solenergi transmisjon
Solar energy reflection	Solenergi refleksjon

Basic soda lime silicate float glass	Kalk-soda-silikat floatglass
Basic soda lime silicate patterned glass	Kalk-soda-silikat ornament glass
Basic soda lime silicate wired patterned glass	Kalk-soda-silikat ornament trådglass
Coated glass	Belagt glass
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termisk herdet glass
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heat soaked termisk herdet kalk-soda-silikat glass
Heat strengthened soda lime silicate glass	Varmeforsterket glass
Insulating glass units	Isoler glass
Laminated glass and laminated safety glass	Laminert glass og laminert sikkerhetsglass
Fire resistant glass	Brannbeskyttende glass

English → polski

CE Marking	Oznakowanie CE
Characteristics	Właściwości
Resistance to fire	Odporność na ogień
Reaction to fire	Reakcja na ogień
External fire performance	Zachowanie w przypadku pożaru
Bullet resistance	Odporność na uderzenie pocisku
Explosion resistance	Odporność na siłę eksplozji
Burglar resistance	Odporność na włamanie
Pendulum body impact resistance	Odporność na uderzenie wahadłem
Resistance against sudden temperature changes and temperature differentials	Odporność na nagłe zmiany temperatury oraz różnice temperatur
Wind, snow, permanent and imposed load resistance	Odporność na siłę wiatru, napór śniegu oraz stałe i przyłożone obciążenia
Direct airborne sound insulation	Izolacja akustyczna
Thermal properties	Właściwości termiczne
Emissivity	Emisyjność
U-value	Współczynnik U
Radiation properties	Właściwości w zakresie promieniowania
Light transmission	Przepuszczalność światła
Light reflection	Odbicie światła
Solar energy transmission	Przepuszczalność energii promieniowania słonecznego
Solar energy reflection	Odbicie energii promieniowania słonecznego

Basic soda lime silicate float glass	Podstawowe wyroby ze szkła float sodowo-wapniowo-krzemianowego
Basic soda lime silicate patterned glass	Podstawowe wyroby ze szkła wzorzystego walcowanego sodowo-wapniowo-krzemianowego
Basic soda lime silicate wired patterned glass	Podstawowe wyroby ze szkła wzorzystego zbrojonego sodowo-wapniowo-krzemianowego
Coated glass	Szkoło powlekane
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termicznie hartowane bezpieczne szkło sodowo-wapniowo-krzemianowe
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Wyrzewanie termicznie hartowane bezpieczne szkło sodowo-wapniowo-krzemianowe
Heat strengthened soda lime silicate glass	Cieplnie wzmocnione szkło sodowo-wapniowo-krzemianowe
Insulating glass units	Szyby zespolone izolacyjne
Laminated glass and laminated safety glass	Szkoło warstwowe i bezpieczne szkło warstwowe
Fire resistant glass	Szkoło ognioodporne

English → slovenčina

CE Marking	Označenie CE
Characteristics	Vlastnosti
Resistance to fire	Odolnosť voči ohňu
Reaction to fire	Reakcia na oheň
External fire performance	Správanie sa voči vonkajšiemu ohňu
Bullet resistance	Nepriestrelnosť
Explosion resistance	Odolnosť voči výbuchu
Burglar resistance	Odolnosť voči vlámaniu
Pendulum body impact resistance	Odolnosť voči nárazu kyvadla
Resistance against sudden temperature changes and temperature differentials	Odolnosť voči náhlym teplotným zmenám a teplotným rozdielom
Wind, snow, permanent and imposed load resistance	Odolnosť voči vetru, snehu a trvalému a náhodilému zaťaženiu
Direct airborne sound insulation	Priama vzduchová nepriezvučnosť
Thermal properties	Tepelné vlastnosti
Emissivity	Emisivita
U-value	K-hodnota
Radiation properties	Vlastnosti ohľadom žiarenia
Light transmission	Prestup svetla
Light reflection	Odraz svetla
Solar energy transmission	Prestup slnečného žiarenia
Solar energy reflection	Odraz slnečného žiarenia

Basic soda lime silicate float glass	Základné plavené sodnovápenatokremičité sklo
Basic soda lime silicate patterned glass	Základné sodnovápenatokremičité vzorované sklo
Basic soda lime silicate wired patterned glass	Základné sodnovápenatokremičité vzorované sklo s drôtenou vložkou
Coated glass	Sklo s povlakom
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Tepelne tvrdené sodnovápenatokremičité bezpečnostné sklo
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Prehrievané tepelne tvrdené sodnovápenatokremičité bezpečnostné sklo
Heat strengthened soda lime silicate glass	Tepelne spevnené sodnovápenatokremičité sklo
Insulating glass units	Jednotky izolačného skla
Laminated glass and laminated safety glass	Laminované sklo a laminované bezpečnostné sklo
Fire resistant glass	Protipožiarne sklo

English → slovenščina

CE Marking	CE označevanje
Characteristics	Lastnosti
Resistance to fire	Ognjeodpornost
Reaction to fire	Obnašanje med požarom
External fire performance	Obnašanje med zunanjim požarom
Bullet resistance	Odpornost pred strelji
Explosion resistance	Odpornost pred eksplozijo
Burglar resistance	Odpornost na vlome
Pendulum body impact resistance	Odpornost na preiskus z nihalom
Resistance against sudden temperature changes and temperature differentials	Odpornost na nenadne temperaturne spremembe in na razlike v temperaturah
Wind, snow, permanent and imposed load resistance	Odpornost na nenadne temperaturne spremembe in na razlike v temperaturah
Direct airborne sound insulation	Direktna zvočna izolirnost
Thermal properties	Toplotne lastnosti
Emissivity	Sevanje
U-value	U - vrednost
Radiation properties	Sevalno tehnične lastnosti
Light transmission	Prepustnost svetlobe
Light reflection	Odbojnost svetlobe
Solar energy transmission	Prepustnost energije
Solar energy reflection	odbojnost energije
g-value	g-vrednost

Basic soda lime silicate float glass	Ravno steklo iz natrijsilikatnega stekla
Basic soda lime silicate patterned glass	Vzorčasto steklo iz natrijsilikatnega stekla
Basic soda lime silicate wired patterned glass	Žično vzorčasto steklo iz natrijsilikatnega stekla
Coated glass	Steklo z nanosi
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Kaljeno steklo iz natrij-kalcij silikatnega stekla
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Kaljeno steklo s toplotnim preiskusom iz natrij-kalcij silikatnega stekla
Heat strengthened soda lime silicate glass	Toplotno utrjeno steklo iz natrij-kalcij silikatnega stekla
Insulating glass units	Izolacijski stekleni elementi
Laminated glass and laminated safety glass	Lepljeno in varnostno lepljeno steklo
Fire resistant glass	Ognjeodporno steklo za uporabo v gradbeništvu

English → suomi

CE Marking	CE-merkintä
Characteristics	Erityistuntemerkit
Resistance to fire	Palon kestävä
Reaction to fire	Paloa pidättävä
External fire performance	Paloa hidastava
Bullet resistance	Luodinuojaus
Explosion resistance	Räjähdyksensuojaus
Burglar resistance	Murronsuojaus
Pendulum body impact resistance	Suojaus henkilön törmäystä vastaan
Resistance against sudden temperature changes and temperature differentials	Suojaus äkillistä lämpötilanmuutosta ja lämpötilagradientteja vastaan
Wind, snow, permanent and imposed load resistance	Suojaus tuulikuormaa, lumikuormaa, pysyvää kuormaa ja hyötykuormaa vastaan
Direct airborne sound insulation	Suoran ilmaääneen eristys
Thermal properties	Lämmöneristys
Emissivity	Emissiivisyys
U-value	U-arvo
Radiation properties	Säteilyn suojaus
Light transmission	Valonläpäisy
Light reflection	Valonheijastus
Solar energy transmission	Auringon lämpösäteilyn kokonaisläpäisy
Solar energy reflection	Auringon lämpösäteilyn heijastus

Basic soda lime silicate float glass	Natronkalkkisilikaattitasolasi
Basic soda lime silicate patterned glass	Natronkalkkisilikaatti koristelasi
Basic soda lime silicate wired patterned glass	Kuvioitu natronkalkkisilikaattirautalankalasi
Coated glass	Pinnoitelasi
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Lämpökarkaistu natronkalkkisilikaattiturvalasi
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heat soak testattu karkaistu natronkalkkisilikaattiturvalasi
Heat strengthened soda lime silicate glass	Lämpölujitettu natronkalkkisilikaattiturvalasi
Insulating glass units	Eristyslasiyksiköt
Laminated glass and laminated safety glass	Laminoitu lasi ja laminoitu turvalasi
Fire resistant glass	Palonsuojalasi

English → svenska

CE Marking	CE-märkning
Characteristics	Karaktäristik
Resistance to fire	Motstånd mot brand
Reaction to fire	Reaktion vid brand
External fire performance	Extern brandmotstånd
Bullet resistance	Motstånd mot projektiler
Explosion resistance	Säkerhet vid explosion
Burglar resistance	Motstånd mot inbrott
Pendulum body impact resistance	Pendelprov (personsäkerhet)
Resistance against sudden temperature changes and temperature differentials	Motstånd mot plötsliga temperatursvängningar och temperaturgradienter
Wind, snow, permanent and imposed load resistance	Vind-, snö-, permanent/tillfällig belastning.
Direct airborne sound insulation	Ljudisolering
Thermal properties	Värmeisolering
Emissivity	Emissivitet
U-value	U-värde
Radiation properties	Strålningsegenskaper
Light transmission	Ljustransmission
Light reflection	Ljusreflektion
Solar energy transmission	Solenergi transmission
Solar energy reflection	Solenergi reflektion

Basic soda lime silicate float glass	Kalk-sodasilikatglas,floatglas
Basic soda lime silicate patterned glass	Kalk-sodasilikatglas, mönstrat glas
Basic soda lime silicate wired patterned glass	Kalk-sodasilikatglas, mönstrat trådglas
Coated glass	Belagt glas
Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Termiskt härdat glas
Heat soaked Thermally toughened or Heat soaked thermally toughened soda lime silicate safety glass	Heat soak testat termiskt härdat kalk-sodasilikatglas
Heat strengthened soda lime silicate glass	Värmeförstärkt kalk-sodasilikatglas
Insulating glass units	Isolerglas
Laminated glass and laminated safety glass	Suédois
Fire resistant glass	Brandskyddsglas