

4.3

Reduction factor for the design load level in the fire situation η_{fi} as a function of the ratio between the permanent load G_k and the variable load Q_k for different occupancies and load factors $\gamma_G = 1,2$ and $\gamma_Q = 1,5$, according to equation (2.3) of *Fire 2* (Calculation of the fire resistance). Every member state specifies in its National Annex whether Ψ_1 or Ψ_2 has to be applied.

G_k/Q_k	$\Psi_1 = 0,0$ (roofs)	$\Psi_1 = 0,2$ (wind actions)	$\Psi_1 = 0,5$ (office, residential)	$\Psi_1 = 0,7$ (shopping, congregations)	$\Psi_1 = 0,9$ (storage)
	$\Psi_2 = 0,0$ (roofs, wind actions)	$\Psi_2 = 0,3$ (office, residential)	$\Psi_2 = 0,6$ (shopping, congregations)	$\Psi_2 = 0,8$ (storage)	
0,00	0,000	0,133	0,200	0,333	0,400
0,05	0,032	0,160	0,224	0,353	0,417
0,10	0,062	0,185	0,247	0,370	0,432
0,15	0,089	0,208	0,268	0,387	0,446
0,20	0,115	0,230	0,287	0,402	0,460
0,25	0,139	0,250	0,306	0,417	0,472
0,30	0,161	0,269	0,323	0,430	0,484
0,35	0,182	0,286	0,339	0,443	0,495
0,40	0,202	0,303	0,354	0,455	0,505
0,45	0,221	0,319	0,368	0,466	0,515
0,50	0,238	0,333	0,381	0,476	0,524
0,55	0,255	0,347	0,394	0,486	0,532
0,60	0,270	0,360	0,405	0,495	0,541
0,65	0,285	0,373	0,417	0,504	0,548
0,70	0,299	0,385	0,427	0,513	0,556
0,75	0,313	0,396	0,438	0,521	0,563
0,80	0,325	0,407	0,447	0,528	0,569
0,85	0,337	0,417	0,456	0,536	0,575
0,90	0,349	0,426	0,465	0,543	0,581
0,95	0,360	0,436	0,473	0,549	0,587
1,00	0,370	0,444	0,481	0,556	0,593
1,05	0,380	0,453	0,489	0,562	0,598
1,10	0,390	0,461	0,496	0,567	0,603
1,15	0,399	0,469	0,503	0,573	0,608
1,20	0,408	0,476	0,510	0,578	0,612
1,25	0,417	0,483	0,517	0,583	0,617
1,30	0,425	0,490	0,523	0,588	0,621
					0,654
					0,686
					0,719

4.3 (continued)

Reduction factor for the design load level in the fire situation η_{fi} as a function of the ratio between the permanent load G_k and the variable load Q_k for different occupancies and load factors $\gamma_G = 1,2$ and $\gamma_Q = 1,5$, according to equation (2.3) of *Fire 2* (Calculation of the fire resistance). Every member state specifies in its National Annex whether Ψ_1 or Ψ_2 has to be applied.

G_k/Q_k	$\Psi_1 = 0,0$ (roofs)	$\Psi_1 = 0,2$ (wind actions)	$\Psi_1 = 0,5$ (office, residential)	$\Psi_1 = 0,7$ (shopping, congregations)	$\Psi_1 = 0,9$ (storage)			
	$\Psi_2 = 0,0$ (roofs, wind actions)	$\Psi_2 = 0,3$ (office, residential)	$\Psi_2 = 0,6$ (shopping, congregations)	$\Psi_2 = 0,8$ (storage)				
1,35	0,433	0,497	0,529	0,593	0,625	0,657	0,689	0,721
1,40	0,440	0,503	0,535	0,597	0,629	0,660	0,692	0,723
1,45	0,448	0,509	0,540	0,602	0,633	0,664	0,694	0,725
1,50	0,455	0,515	0,545	0,606	0,636	0,667	0,697	0,727
1,55	0,461	0,521	0,551	0,610	0,640	0,670	0,699	0,729
1,60	0,468	0,526	0,556	0,614	0,643	0,673	0,702	0,731
1,65	0,474	0,532	0,560	0,618	0,647	0,675	0,704	0,733
1,70	0,480	0,537	0,565	0,621	0,650	0,678	0,706	0,734
1,75	0,486	0,542	0,569	0,625	0,653	0,681	0,708	0,736
1,80	0,492	0,546	0,574	0,628	0,656	0,683	0,710	0,738
1,85	0,497	0,551	0,578	0,632	0,659	0,685	0,712	0,739
1,90	0,503	0,556	0,582	0,635	0,661	0,688	0,714	0,741
1,95	0,508	0,560	0,586	0,638	0,664	0,690	0,716	0,742
2,00	0,513	0,564	0,590	0,641	0,667	0,692	0,718	0,744