W-UR 14 SYMCON® GS SCAFFOLD ANCHOR

Performance data: Concrete, Multiple attachment of non load-bearing systems			
Anchor diameter		**[mm]**	**W-UR 14 SymCon**
Setting depth of the anchor sleeve		**h_{nom} [mm]**	**100**
Central tensile load[1] for single anchor or anchor group	N_{perm} = C12/15 [kN]	30°C[2]/50°C[3]	2.4
		50°C[2]/80°C[3]	2.4
	N_{perm} = C16/20 [kN]	30°C[2]/50°C[3]	3.2
		50°C[2]/80°C[3]	3.2
Minimum component thickness	h_{min}	[mm]	140

[1]The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of γF = 1.4 have been taken into account. In case of a combination of tensile and transverse loads, please observe ETAG 020 Appendix C.

[2]Maximum long-term temperature
[3]Maximum short-term temperature

Performance data: Masonry[4], Multiple attachment of non-load-bearing systems (temperature range: 50°C[2]/80°C[3])

Other brick types, raw densities, minimum compressive strengths and temperature ranges can be found in ETA-11/0309.

Brick type	**Brick format [mm]**	**Raw density class [kg/dm³]**	**Minimum compressive strength [N/mm²]**	**N_{perm} [kN] [1) 5)] (central tensile load for single anchor)**
Anchoring depth	**h_{nom} [mm]**			**100**
Clay brick CB, EN 771-1, DIN 105	≥ 3DF (≥ 240 x 115 x 113)	≥ 1.8	10	1.0
			20	1.57
Solid sand-lime brick Silka XL Basic, Silka XL Plus, EN 771-2, DIN 106, Z-17.1-997	≥ NF (≥ 248 x 175 x 498)	≥ 2.0	10	0.86
			20	1.29
			28	1.86
Solid brick, normal concrete SCB, EN 771-3, DIN 18153	≥ NF (≥ 240 x 115 x 71)	≥ 2.0	10	0.57
			20	0.86
			28	1.14
Solid brick, normal concrete S, EN 771-3, DIN 18152-100 e.g. BisoBims Classic, Bisotherm	≥ 3DF (≥ 240 x 175 x 113)	≥ 2.0	10	1.14
			20	1.57
Solid brick, lightweight concrete S, EN 771-3, DIN 18152-100 e.g. BisoBims	≥ NF (≥ 240 x 115 x 71)	≥ 1.0	2	0.34
			4	0.57
Vertically-perforated brick VPB[6], EN 771-1, DIN 105 e.g. Wienerberger, Schlagmann	≥ 12DF (≥ 373 x 240 x 238)	≥ 1.2	6	0.43
			8	0.57
			10	0.71
Vertically perforated brick VPB T14-24.0[6], EN 771-1, Z-17.1-651 e.g. Wienerberger	≥ 10DF (≥ 308 x 240 x 249)	≥ 0.7	6	0.17
Vertically perforated brick POROTON T8-30[6], POROTON T9-30[6], EN 771-1, T8: Z-17.1-982, T9: Z-17.1-674 Wienerberger, Schlagmann	≥ 248 x 300 x 249	≥ 0.6	6	0.43
			8	0.57
Perforated sand-lime brick PSLB[6], EN 771-2, DIN 106-1 e.g. Xella	≥ 8DF (≥ 249 x 240 x 238)	≥ 1.4	6	0.34
			8	0.43
			10	0.57
			12	0.71
Hollow block of lightweight concrete 3K HBLC, EN 771-3, DIN 18151[6] e.g. Liapor	≥ 16DF (≥ 498 x 240 x 238)	≥ 0.7	2	0.14
			4	0.26
			6	0.43

[1]The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of γ_F = 1.4 have been taken into account. In case of a combination of tensile and transverse loads, please observe ETAG 020 Appendix C.

[2]Maximum long-term temperature
[3]Maximum short-term temperature

[4]Other brick types, raw densities, minimum compressive strengths, or temperature ranges can be found in ETA-11/0309.

[5]The brick geometry should be compared with the ETA-08/0190 approval.

[6]If the drilled hole is created through impacting or hammering, the permissible load is to be determined via tests on the building.