

W-UR 14 SYMCON PLASTIC FRAME-FIXING ANCHOR

42.5

Performance data: Masonry⁴⁾,

multiple attachment of non-load-bearing systems (temperature range: 50°C²⁾/80°C³⁾)

For other stone types, raw densities, minimum compressive strengths, edge clearings, axial spacings or temperature ranges, please refer to ETA-11/0309 approval

Stone type	Stone format [mm]	Raw density class [kg/dm ³]	Minimum compressive strength [N/mm ²]	F _{perm} [kN] ¹⁾⁵⁾ (for single anchor or anchor group)	
				W-UR 14 SymCon	
Anchoring depth	h _{nom} [mm]			70 to 99	100
Solid stone of normal concrete V , EN 771-3, DIN 18152-100 e.g. BasisBims Classic, BasisTherm	≥ 3DF (≥ 240 x 175 x 113)	≥ 2.0	10	-	1.14
			20	-	1.57
Solid stone of lightweight concrete V , EN 771-3, DIN 18152-100 e.g. BasisBims	≥ NF (≥ 240 x 115 x 71)	≥ 1.0	2	-	0.34
			4	-	0.57
Vertically perforated brick HLz⁶⁾ , 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 HLz T14-24.0⁶⁾ , 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 T8-30⁶⁾ , POROTON T9-30⁶⁾ , EN 771-1, T8: Z-17.1-982, T9: Z-17.1-674 Wienerberger, Schlagmann	≥ 10DF (≥ 248 x 300 x 249)	≥ 0.6	6	-	0.43
			8	-	0.57
Vertically-perforated brick POROTON S10⁶⁾ , EN 771-1, Z-17.1-1017 Wienerberger, Schlagmann	≥ 10DF (≥ 248 x 300 x 249)	≥ 0.75	8	-	0.43
Vertically-perforated brick POROTON S11-30⁶⁾ , EN 771-1, Z-17.1-812 Wienerberger, Schlagmann	≥ 10DF (≥ 248 x 300 x 249)	≥ 0.9	8	-	0.71
Vertically-perforated brick ThermoPlan MZ10⁶⁾ , EN 771-1, Z-17.1-1015 Mein Ziegelhaus	≥ 10DF (≥ 248 x 300 x 249)	≥ 0.75	8	0.57	0.71
Vertically-perforated brick ThermoPlan TS²⁾⁶⁾ , EN 771-1, Z-17.1-993 Mein Ziegelhaus	≥ 9DF (≥ 373 x 175 x 249)	≥ 0.9	6	0.11	0.11
			8	0.17	0.17
			10	0.21	0.21
			12	0.26	0.26
			20	0.43	0.43
Vertically-perforated brick THERMOPOR TV 9-Plan⁶⁾ , EN 771-1, Z-17.1-1006 Thermopor Ziegel-Kontor Ulm	≥ 247 x 300 x 249	≥ 0.75	4	-	0.26
			6	-	0.43
			8	-	0.57
Perforated sand-lime brick KSL⁶⁾ , EN 771-2, DIN 106-1 e.g. Xella	≥ 8DF (≥ 248 x 240 x 238)	≥ 1.4	6	-	0.34
			8	-	0.43
			10	-	0.57
			12	-	0.71
Hollow block of lightweight concrete 3K Hbl , EN 771-3, DIN 181516) 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 $\gamma_r = 1.4$ 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⁾ For other stone types, raw densities, minimum compressive strengths or temperature ranges, please refer to ETA-11/0309 approval.

⁵⁾ The stone geometry should be compared with the ETA-11/0309 approval.

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