

W-UR 10 SYMCON® PLASTIC FRAME ANCHOR

42.4

Performance data: Masonry⁴⁾					
Multiple attachment of non-load-bearing systems (temperature range: 50 °C ²⁾ /80 °C ³⁾)					
For other stone types, raw densities, minimum compressive strengths, edge clearances, axle bases or temperature ranges, please refer to ETA-11/0309 approval					
Stone type	Brick 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 10 SymCon	
Anchoring depth	h _{nom} [mm]			50	70
Solid lightweight concrete brick S , EN 771-3, DIN 18152-100 e.g. BisoBims, Bisotherm	≥NF (≥240x115x71)	≥ 1.0	2	0.21	-
			4	0.43	-
	≥3 DF (≥ 240 x 175 x 71)		2	-	0.11
			4	-	0.21
Vertically perforated brick VPB⁶⁾ , EN 771-1, DIN 105 e.g. Wienerberger, Schlagmann	≥ 2 DF (≥ 240 x 115 x 113)	≥ 1.2	10	-	0.34
			20	-	0.57
	≥ 12 DF (≥ 373 x 240 x 238)		6	-	0.34
			8	-	0.43
			10	-	0.57
Vertically perforated brick POROTON T8-30⁶⁾ , EN 771-1, T8: Z-17.1-982 Wienerberger, Schlagmann	≥ 248 x 300 x 249	≥ 0.6	4	-	0.17
			6	-	0.26
			8	-	0.26
Perforated sand-lime brick PSLB⁶⁾ , EN 771-2, DIN 106-1 e.g. Xella	≥ 2 DF (≥ 240 x 115 x 113)	≥ 1.4	6	-	0.26
			8	-	0.34
			10	-	0.43
			12	-	0.57
	≥ 8DF (≥ 249 x 240 x 238)		6	-	0.21
			8	-	0.26
			10	-	0.34
			12	-	0.43
Lightweight concrete hollow block 3K HB , EN 771-3, DIN 18151 ⁶⁾ e.g. Liapor	≥ 16 DF (≥ 498 x 240 x 238)	≥ 0.7	2	-	0.17
			4	-	0.34
			6	-	0.34
Aerated concrete EN 771-4, DIN 4165	≥ 499 x 100 x 249	≥ 0.3	2	-	0.18
			3	-	0.26
			4	-	0.34
			5	-	0.42
			6	-	0.5

¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_F = 1.4$ 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-11/0309 approval.

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

Performance data: Hollow prestressed concrete plate ceilings					
Multiple attachment of non load-bearing systems					
Anchor diameter	[mm]	W-UR 10 SymCon			
Mirror thickness	d _u [mm]	25	30	35	40
Hollow prestressed concrete plates ¹⁾	F _{perm} ≥ C30/37 [kN]	30 °C ²⁾ /50 °C ³⁾	0.4	0.8	1.2
		50 °C ²⁾ /80 °C ³⁾			1.6

¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_F = 1.4$ 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