

W-UR 14 SYMCON PLASTIC FRAME-FIXING ANCHOR

42.5

Installation values: Concrete and masonry			
Anchor diameter [mm]		W-UR 14 SymCon	
Nominal drill dia.	d_0 [mm]	14	
Drill cutting dia.	$d_{cut} \leq$ [mm]	14.45	
Drill hole depth	$h_1 \geq$ [mm]	80	110
Setting depth of the anchor sleeve	h_{nom} [mm]	70	100
Through-hole in attachment part	$d_f \leq$ [mm]	14.5	

Performance data: Concrete, multiple attachment of non-load-bearing systems in concrete				
Anchor diameter		[mm]	W-UR 14 SymCon	
Setting depth of the anchor sleeve		h_{nom} [mm]	70	100
Centered tensile load ¹⁾ for single anchor or anchor group	$N_{perm} = C12/15$ [kN]	$30^\circ C^2/50^\circ C^3$	2.4	2.4
		$50^\circ C^2/80^\circ C^3$	2.2	2.4
	$N_{perm} \geq C16/20$ [kN]	$30^\circ C^2/50^\circ C^3$	3.2	3.2
		$50^\circ C^2/80^\circ C^3$	3.0	3.2
Transverse load ¹⁾ for single anchor or anchor group	V_{perm}	[kN]	9.5	9.5
Minimum component thickness	h_{min}	[mm]	110	140
Minimum axle base ⁴⁾	s_{min} [mm]	C12/15	85	85
		$\geq C16/20$	60	60
Minimum edge clearance ⁴⁾	c_{min} [mm]	C12/15	115	115
		$\geq C16/20$	80	80
Characteristic edge clearance	$c_{cr,N}$ [mm]	C12/15	110	140
		$\geq C16/20$	80	100

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⁾ Permissible load must be reduced.

Performance data: Masonry ⁴⁾ , multiple attachment of non-load-bearing systems (temperature range: $50^\circ C^2/80^\circ C^3$) 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
Clay brick Mz , EN 771-1, DIN 105	$\geq 3DF$ ($\geq 240 \times 115 \times 113$)	≥ 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	$\geq NF$ ($\geq 248 \times 175 \times 498$)	≥ 2.0	10	0.86	0.86
			20	1.29	1.29
			28	1.71	1.86
Solid brick, normal concrete Vbn , EN 771-3, DIN 18153	$\geq NF$ ($\geq 240 \times 115 \times 71$)	≥ 2.0	10	-	0.57
			20	-	0.86
			28	-	1.14

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⁾ 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.