

FIXING ANCHOR WITH FEMALE THREAD W-FAZ-IG/A4, W-FAZ-IG/HCR

02.8

Perform	ance data									
Anchor diameter [mm]			M6	M6	M8	M8	M10	M10	M12	M12
Perm. centered tensile load ³⁾ on a single anchor without edge in- fluence	Tensile zone (cracked concrete C20/25 ⁴), $s \ge 3 h_{ef}$, $c \ge 1.5 h_{ef}$	N _{perm} [kN] = C20/25 ⁴)	2.0	2.0	3.6	3.6	4.8	4.8	7.9	7.9
	Pressure zone (uncracked concrete C20/25 ⁴), $s \ge 5 h_{ef}$, $c \ge 2.5 h_{ef}$	N _{perm} [kN] = C20/25 ⁴)	4.8	4.8	6.3	6.3	7.9	7.9	11.9	11.9
transverse load³) on a single anchor without edge influence		V _{perm.} [kN] = C20/25 ⁴)	3.3	4.2	5.3	4.3	6.1	5.5	13.5	16.9
Permissible Cotter-pin me	e bending torque ounting Through-bolt mounting	M _{perm.} [Nm]	4.9	16.1	12.0	25.3	23.9	39.9	41.9	109.3
Fire-resista	ince duration Permissible load under	fire load (R30, R60, R90, R1:	20) see Europ	ean Technical	Approval ETA-9	99/0011				
F30 ≤ [kN] F60 ≤ [kN] F70 ≤ [kN] F7		8.0	8.0	10.0	10.0	16.0	16.0	22.0	22.0	
		2.5	2.5	3.5	3.5	8.0	8.0	11.0	11.0	
		1.3	1.3	1.8	1.8	5.3	5.3	7.3	7.3	
		0.8	0.8	1.2	1.2	4.0	4.0	5.5	5.5	

Characteristic values									
Minimum component thickness	d ≥ [mm]	100	100	120	120	130	130	160	160
Minimum axial spacing	s _{min} ≥ [mm]	50	50	60	60	70	65	80	80
Cracked concrete Uncracked concrete	for c ≥ [mm]	60	80	80	100	100	120	120	160
Minimum edge spacing	c _{min} ≥ [mm]	50	50	60	60	70	70	80	100
Cracked concrete Uncracked concrete	for $s \ge [mm]$	75	115	100	155	100	170	120	210
Effective anchoring depth	h _{ef} [mm]	45	45	58	58	65	65	80	80
Nom. drill dia.	d _o [mm]	8	8	10	10	12	12	16	16
Drill cutting dia.	d _{cut} ≤ [mm]	8.45	8.45	10.45	10.45	12.5	12.5	16.5	16.5
Drill hole depth	h ₁ ≥ [mm]	60	60	75	75	90	90	105	105
Min. screw-in depth threaded rod	L _{sd} ≥ [mm]	9	9	12	12	15	15	18	18
	Type S	15	15	40	40	50	50	100	100
Torque while installing anchor	T _{inst} [Nm] Type SK Type B	12 8	12 8	25 25	25 25	45 40	45 40	60 80	60 80
Through-hole in attachment part									
Cotter-pin mounting Through-bolt mounting	d _f ≤ [mm]	7	9	9	12	12	14	14	18

Würth System Components

















¹⁾ Please order the bolts and nuts listed separately - they will be delivered with the related washers and counter-

Threaded rods with acceptance test certificate 3.1 as per Approval ETA-99/0011 in acc. with DIN 976-1 – Mechanical properties in acc. with DIN EN ISO 3506-1. Please order separately.

31 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. For the combination of tensile and transverse loads, for edge influence and anchor groups, please refer to the Guideline for European Technical Approval (ETAG), Appendix

⁴⁾ The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.