

Performance Data

Anchor diameter [mm]		M8		M10		M12		M12		M12		M12	
		h _{ef} 40	h _{ef} 50	h _{ef} 60	h _{ef} 75	h _{ef} 70	h _{ef} 80	h _{ef} 95	h _{ef} 100	h _{ef} 110	h _{ef} 110	h _{ef} 110	h _{ef} 125
Permissible central tensile load ¹⁾ of a single anchor without edge influence	Tensile zone (cracked concrete C20/25 ²⁾ , s ≥ 3 h _{ef} , c ≥ 1.5 h _{ef}	N _{perm.} [kN] C20/25 ²⁾	50°C ³⁾ /80°C ⁴⁾	4.3	6.1	8.0	11.1	10.0	12.3	15.9	17.1	19.8	24.0
	72°C ³⁾ /120°C ⁴⁾		2.4	3.6	5.7	5.7	7.6	9.5	9.5	14.3	14.3	14.3	
	Pressure zone (uncracked concrete C20/25 ²⁾ minimum axial and edge clearances (s _{cr,sp} ≥ 3 h _{ef} , c _{cr,sp} ≥ 1.5 h _{ef})		50°C ³⁾ /80°C ⁴⁾	3.6	4.3	7.6	9.5	9.5	17.2	14.3	19.1	16.7	19.1
Permissible transv. load ¹⁾ of a single anchor w/o edge influence	Tensile zone (cracked concrete C20/25 ²⁾ , c ≥ 10 h _{ef}	V _{perm.} [kN] = C20/25 ²⁾	50°C ³⁾ /80°C ⁴⁾	4.3	8.5	11.2	11.9	14.1	17.2	19.1	24.0	23.8	23.8
	72°C ³⁾ /120°C ⁴⁾		2.9	4.3	7.6	7.6	7.6	11.9	11.9	14.3	14.3	14.3	
	Pressure zone (uncracked concrete C20/25 ²⁾ maximum load-bearing capacity (s _{cr,sp} and c _{cr,sp} see approval)		50°C ³⁾ /80°C ⁴⁾	8.0	8.0	12.0	12.0	19.4	19.4	19.4	19.4	19.4	19.4
Permissible bending torque	M _{perm.} [Nm]		17.1	17.1	34.3	34.3	60	60	60	60	60	60	60
	F30 [kN]		-	3.0	7.0	-	-	10.0	-	10.0	-	-	-
Fire-resistance time	F60 [kN]		-	0.3	0.95	-	-	2.8	-	2.8	-	-	-
	F90 [kN]		-	-	0.3	-	-	1.35	-	1.35	-	-	-
	F120 [kN]		-	-	-	-	-	0.8	-	0.8	-	-	-

Characteristic Values

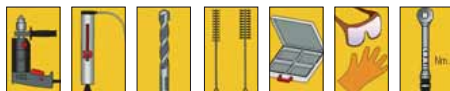
Minimum component thickness	h _{min} ≥ [mm]	80	80	100	110/100 ⁵⁾	110	110	130/125 ⁵⁾	130	140	160								
Minimum axial spacing cracked concr. uncracked concr.	s _{min} ≥ [mm]	40	40	40	50	40	50	55	55	40	55	40	55	50	80 ⁶⁾	50	80 ⁶⁾	50	80 ⁶⁾
Minimum edge spacing cracked concr. uncracked concr.	c _{min} ≥ [mm]	40	40	40	40	50	50	55	55	50	55	50	55	50	55	50	55	50	55
Axial spacing	s _{cr,N} [mm]	120	150	180	225	210	240	285	300	330	375								
Edge spacing	c _{cr,N} [mm]	60	75	90	112.5	105	120	142.5	150	165	187.5								
Effective anchoring depth	h _{ef} [mm]	40	50	60	75	70	80	95	100	110	125								
Drill nominal dia.	d ₀ [mm]	10	10	12	12	14	14	14	14	14	14								
Drill cutting dia.	d _{cut} ? [mm]	10.45	10.45	12.5	12.5	14.5	14.5	14.5	14.5	14.5	14.5								
Drill hole depth	h ₀ ≥ [mm]	42	55	65	80	75	85	100	105	115	130								
Through-hole in component to be connected	d _f ? [mm]	9	9	12	12	14	14	14	14	14	14								
Torque for anchoring	T _{inst} = [Nm]	10	10	20	20	40	40	40	40	40	40								
Cleaning brush dia.	D ≥ [mm]	10.8	10.8	13.0	13.0	15.0	15.0	15.0	15.0	15.0	15.0								

Drilled Hole Cleaning
M8 – M16: 2x blow out, 2x brush out mechanically, 2x blow out

Cleaning brush (steel)	Art. No. P. [Qty.] = 1	0905 499 001	0905 499 002	0905 499 003
Machine holder	Art. No. P. [Qty.] = 1	Hexagon: Art. No. 0905 499 101 SDS-plus: Art. No. 0905 499 102		
Extension	Art. No. P. [Qty.] = 1	0905 499 111		
Brush template	Art. No. P. [Qty.] = 1	0905 499 099		
Blow-out pump	Art. No. P. [Qty.] = 1	Blow-out pump: Art. No. 0903 990 001 M8 reduction attachment for the blow-out pump: Art. No. 0905 499 202		

Anchor Dimensions

W-VIZ/S		M8				M10				M12														
Effective anchoring depth	h _{ef} [mm]	40	50			60	75	70		80	95	100	110	125										
Total length	l [mm]	65	80	95	110	85	95	105	135	175	210	225	225	225	265	265	265	265	265	265				
max. attachment height	t _{fix} [mm]	15	15	30	45	10	20	30	60	100	150	150	150	150	150	150	150	150	150	150				
Designation	W-VIZ-A/S	M8-40-15/65	M8-50-15/80	M8-50-30/95	M8-50-45/110	M10-60-10/85	M10-60-20/95	M10-60-30/105	M10-60-60/135	M10-60-100/175	M10-75-20/110	M12-70-25/115	M12-80-10/110	M12-80-25/125	M12-80-50/150	M12-80-100/200	M12-80-125/225	M12-80-165/265	M12-95-25/140	M12-100-25/145	M12-100-60/180	M12-100-100/220	M12-110-25/155	M12-125-25/170
Anchor bar W-VIZ-A/S Galvanized steel	Art. No.	0905 440 811	0905 440 801	0905 440 802	0905 440 803	0905 441 001	0905 441 002	0905 441 003	0905 441 004	0905 441 005	0905 441 011	0905 441 211	0905 441 201	0905 441 202	0905 441 203	0905 441 204	0905 441 205	0905 441 206	0905 441 221	0905 441 251	0905 441 252	Special order	Special order	0905 441 271
Packing unit	P. Qty.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
WIT-VM 100 mortar cartridge		Mortar cartridge 300 ml (incl. 1 static mixer) Art. No. 0905 440 001 P. [Qty.] = 1/12																						
No. of fastening points/cartridge	approx. pieces	75	62			42	36	37	30	28	28	27	27											
Static mixer	Art. No. P. Qty. = 10	0903 420 001																						
Extension for static mixer	Art. No. P. Qty. = 10	0903 420 004																						



¹⁾ The part safety coefficients of the resistances and a part safety coefficient of the effects of γ_f = 1.4 have been taken into account. For the combination of tensile and transverse loads, for edge influence and dowel groups, please refer to the Directive for European Technical Approval (ETAG) Appendix C.
²⁾ The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.
³⁾ Maximum long-term temperature.
⁴⁾ Maximum short-term temperature.
⁵⁾ The back of the concrete component must be checked to ensure that no chipping has occurred during drilling (see ETA-04/0095).
⁶⁾ Min. axial spacing s_{min} = 55 mm for edge spacing c ≥ 80 mm.