

# WIT-VM 250, OPTION 1

23.5

Cleaning accessories						
For diameter	Nom. drill dia. $d_0$ [mm]	Cleaning Brush Art. No.	Extension Art. No.	Machine Mounting Art. No.	Blow-Out Pump Art. No.	P. Qty.
M8	10	0905 499 001	0905 499 111	Hexagon: 0905 499 101  SDS plus: 0905 499 102	0903 990 001	1
M10	12	0905 499 002				
M12	14	0905 499 003				
M16	18	0905 499 004				
M20	24	0905 499 005				
M24	28	0905 499 008				

Cracked and uncracked concrete Performance Data and Characteristic Installation Values														
Temperature range: 24°C <sup>1)</sup> /40°C <sup>2)</sup>				(temperature ranges 50°C/80°C and 72°C/120°C see ETA-12/0164)										
Anchoring base: Dry and moist concrete				(anchoring base: Water-filled drilled hole, see ETA-12/0164)										
Pressure resistance of concrete: C20/25														
Anchor diameter			M8			M10			M12			M16		
Effective anchoring depth	$h_{ef}$ [mm]		60	80	160	60	90	200	70	110	240	80	125	320
<b>Cracked concrete</b>														
Permissible central tensile load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$N_{per}$ [kN]	-	-	-	-	-	-	5.8	9.1	19.7	8.8	13.7	35.1
	Galvanized steel, 8.8	$N_{per}$ [kN]	-	-	-	-	-	-	5.8	9.1	19.7	8.8	13.7	35.1
	Stainless steel A4 and HCR	$N_{per}$ [kN]	-	-	-	-	-	-	5.8	9.1	19.7	8.8	13.7	35.1
Permissible transverse load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$V_{perm}$ [kN]	-	-	-	-	-	-	12.0	12.0	12.0	21.1	22.3	22.3
	Galvanized steel, 8.8	$V_{perm}$ [kN]	-	-	-	-	-	-	13.8	19.4	19.4	21.1	32.0	36.0
	Stainless steel A4 and HCR	$V_{perm}$ [kN]	-	-	-	-	-	-	13.7	13.7	13.7	21.1	25.2	25.2
<b>Uncracked concrete</b>														
Permissible central tensile load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$N_{per}$ [kN]	7.2	8.6	8.6	9.0	13.4	13.8	11.7	19.7	20.0	14.4	28.0	37.1
	Galvanized steel, 8.8	$N_{per}$ [kN]	7.2	9.6	13.8	9.0	13.4	21.9	11.7	19.7	31.9	14.4	28.0	59.5
	Stainless steel A4 and HCR	$N_{per}$ [kN]	7.2	9.6	9.9	9.0	13.4	15.7	11.7	19.7	22.5	14.4	28.0	42.0
Permissible transverse load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$V_{perm}$ [kN]	5.1	5.1	5.1	8.6	8.6	8.6	12.0	12.0	12.0	22.3	22.3	22.3
	Galvanized steel, 8.8	$V_{perm}$ [kN]	8.6	8.6	8.6	13.1	13.1	13.1	19.4	19.4	19.4	34.4	36.0	36.0
	Stainless steel A4 and HCR	$V_{perm}$ [kN]	6.0	6.0	6.0	9.2	9.2	9.2	13.7	13.7	13.7	25.2	25.2	25.2
Nom. drill dia.	$d_0$ [mm]		10			12			14			18		
Drilled hole depth/Anchoring depth	$h_0/h_{ef}$ [mm]		60	80	160	60	90	200	70	110	240	80	125	320
Minimum edge spacing	$c_{min}$ [mm]		40			50			60			80		
Minimum axial spacing	$s_{min}$ [mm]		40			50			60			80		
Minimum component thickness	$h_{min}$ [mm]		100	110	190	100	120	230	100	140	270	116	161	356
Through-hole in the component being connected	$d_f \leq$ [mm]		9			12			14			18		
Torque while installing anchor	$T_{inst} \leq$ [Nm]		10			20			40			80		

<sup>1)</sup> Maximum long-term temperature

<sup>2)</sup> Maximum short-term temperature

<sup>3)</sup> 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. With a combination of tensile and transverse loads, with edge influence and anchor groups, please observe the EOTA Technical Report TR029 "Design of Bonded Anchors".