

# WIT-PE 500, OPTION 1

23.6

Cleaning accessories					
For diameter	Drill nominal dia. $d_0$ [mm]	Cleaning brush Art. No. P. [Qty.] = 1	Extension Art. No. P. [Qty.] = 1	Machine Mounting Art. No. P. [Qty.] = 1	Blow-Out Pump Art. No. P. [Qty.] = 1
M8	10	0905 499 001	0905 499 111	Hexagon: 0905 499 101  SDS plus: 0905 499 102	0903 990 001
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 43 °C/60 °C and 43 °C/72 °C see ETA-09/0040)

Anchoring base: Dry and moist concrete (anchoring base: Water-filled drill hole, see ETA-09/0040)

Pressure resistance of concrete: C20/25

Anchor diameter		M8			M10			M12			M16			
Effective anchoring depth	$h_{ef}$ [mm]	60	80	96	60	90	120	70	110	144	80	125	192	
<b>Cracked concrete</b>														
Permissible central tensile load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$N_{perm}$ [kN]	-	-	-	-	-	-	7.9	12.3	16.2	10.2	16.2	24.9
	Galvanized steel, 8.8	$N_{perm}$ [kN]	-	-	-	-	-	-	7.9	12.3	16.2	10.2	16.2	24.9
	Stainless steel A4 and HCR	$N_{perm}$ [kN]	-	-	-	-	-	-	7.9	12.3	16.2	10.2	16.2	24.9
Permissible transverse load <sup>3)</sup> (single anchor without edge influence)	Galvanized steel, 5.8	$V_{perm}$ [kN]	-	-	-	-	-	-	12.0	12.0	12.0	22.3	22.3	22.3
	Galvanized steel, 8.8	$V_{perm}$ [kN]	-	-	-	-	-	-	18.8	19.4	19.4	24.5	36.0	36.0
	Stainless steel A4 and HCR	$V_{perm}$ [kN]	-	-	-	-	-	-	13.7	13.7	13.7	24.5	25.2	25.2
<b>Uncracked concrete</b>														
Permissible central tensile load <sup>3)</sup> , (single anchor without edge influence)	Galvanized steel, 5.8	$N_{perm}$ [kN]	8.6	8.6	8.6	9.3	13.8	13.8	11.7	20.0	20	14.3	28.0	37.1
	Galvanized steel, 8.8	$N_{perm}$ [kN]	9.0	12.0	13.8	9.3	16.8	21.9	11.7	23.1	31.9	14.3	28.0	53.3
	Stainless steel A4 and HCR	$N_{perm}$ [kN]	9.0	9.9	9.9	9.3	15.7	15.7	11.7	22.5	22.5	14.3	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
Drill nominal dia.	$d_0$ [mm]	10			12			14			18			
Drill hole depth/Anchoring depth	$h_0/h_{ef}$ [mm]	60	80	96	60	90	120	70	110	144	80	125	192	
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	126	100	120	150	100	140	174	116	161	228	
Through-hole in the component being connected	$d_f \leq$ [mm]	9			12			14			18			
Torque for anchoring	$T_{inst} \leq$ [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 TR 029 "Design of Bonded Anchors".