INJECTION SYSTEM WIT-PE 1000

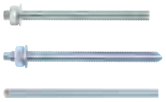
585 ml

Cartridge sizes		Art. no.	Dispensing guns
440 ml	side-by-side	**5918 605 440**	
585 ml	side-by-side	**5918 605 585**	p. 48
1400 ml	side-by-side	**5918 605 140**	

Application references




Approvals and certificates

Threaded rod	Internal threaded rod	Rebar
		
✓	–	✓
p. 34–36	p. 36	not supplied by Würth

Temperature of base material	Gelling – working time	Min. curing time – dry conditions[1)]
5 °C to 9 °C	80 min	48 h
10 °C to 14 °C	60 min	28 h
15 °C to 19 °C	40 min	18 h
20 °C to 24 °C	30 min	12 h
25 °C to 34 °C	12 min	9 h
35 °C to 39 °C	8 min	6 h
+40 °C	8 min	4 h

[1)] for wet base material the curing time must be doubled

Type of installation		
Pre-positioned	In-place	Stand-off
✓	–	✓

Installation condition		
Dry concrete	Wet concrete	Flooded drill hole
✓	✓	✓

Drilling method		
Hammer drill	Diamond drill	Hollow drill
✓	✓	✓

Rotary drilling in masonry required for some types of bricks and blocks

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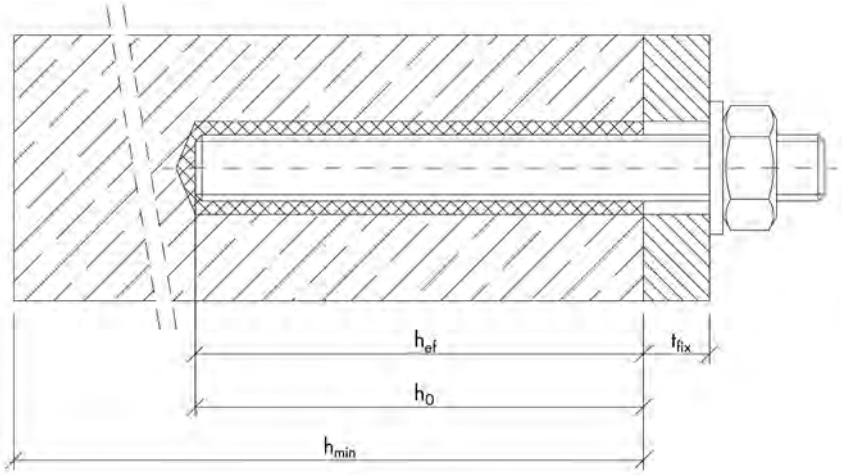
Loads – concrete

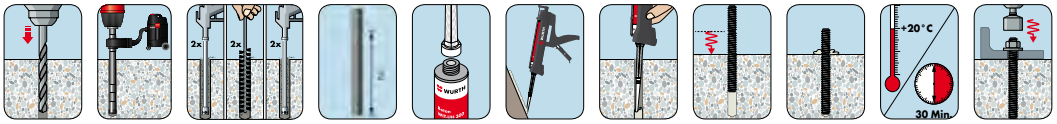
Thread size				M8	M10	M12	M16	M20	M24	M27	M30
Effective anchorage depth		h_{ef}	[mm]	80	90	110	125	170	210	240	270
Non-cracked Concrete											
Tension	5.8	N_{rec}	[kN]	8.7	13.8	20.1	32.7	51.9	71.3	87.1	103.9
	8.8			13.8	20.0	27.0	32.7	51.9	71.3	87.1	103.9
	A4-70			9.9	15.7	22.5	32.7	51.9	71.3	57.4	70.2
Shear	5.8	V_{rec}	[kN]	6.3	9.9	14.5	26.9	42.0	60.5	78.7	96.2
	8.8			8.6	13.1	19.4	36.0	56.0	80.6	105.1	128.0
	A4-70			6.0	9.2	13.7	25.2	39.4	56.8	34.5	42.0
Cracked Concrete											
Tension	5.8/8.8	N_{rec}	[kN]	6.7	9.4	16.8	22.9	36.3	49.9	61.0	72.7
	A4-70			6.7	9.4	16.8	22.9	36.3	49.9	57.4	70.2
Shear	5.8	V_{rec}	[kN]	6.3	9.9	14.5	26.9	42.0	60.5	78.7	96.2
	8.8			8.6	13.1	19.4	36.0	56.0	80.6	105.1	128.0
	A4-70			6.0	9.2	13.7	25.2	39.4	56.8	34.5	42.0

[1] Loads are valid for single anchors. Normal spaced reinforcement in ≥ C20/25. Material safety factor γ_M and safety factor for action γ_L = 1.4 are included. The material safety factor depends on the failure mode.
[2] Loads for anchorages close to edge and/or with small spacing have to be reduced and should be calculated based on performance data given in the ETA.

Clearance-hole in fixture	Pre-positioned	d_f	[mm]	9	12	14	18	22	26	30	33
	Push through	d_f	[mm]	12	14	16	20	24	30	33	40
Drill depth		$h_0 = h_{ef}$	[mm]	80	90	110	125	170	210	240	270
Minimum thickness of concrete member		h_{min}	[mm]	110	120	140	161	214	266	300	340
Minimum edge distance		c_{min}	[mm]	35	40	45	50	60	65	75	80



Installation Concrete



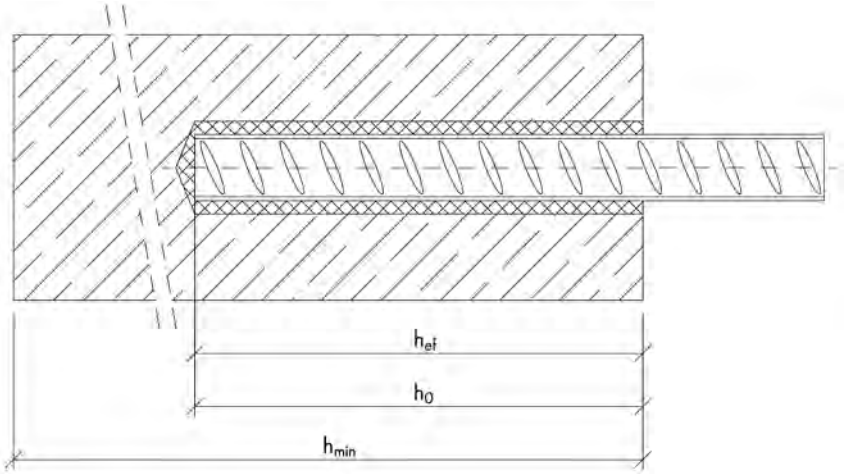
INJECTION SYSTEM WIT-PE 1000

Loads – REBAR

Rebar size				Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25	Ø 28	Ø 32
Effective anchorage depth		h_{ef}	[mm]	80	90	110	125	125	170	210	270	300
Non-cracked Concrete												
Tension	B500B	N_{rec}	[kN]	14.0	20.0	27.0	32.7	32.7	51.9	71.3	103.9	121.7
Shear		V_{rec}	[kN]	6.5	10.3	14.8	20.2	26.3	41.1	64.3	80.7	105.3
Cracked Concrete												
Tension	B500B	N_{rec}	[kN]	6.7	9.4	16.8	22.3	22.9	36.3	49.9	72.7	85.2
Shear		V_{rec}	[kN]	6.5	10.3	14.8	20.2	26.3	41.1	64.3	80.7	105.3

[1] Loads are valid for single anchors. Normal spaced reinforcement in ≥ C20/25. Material safety factor γ_M and safety factor for action γ_L = 1.4 are included. The material safety factor depends on the failure mode.
[2] Loads for anchorages close to edge and/or with small spacing have to be reduced and should be calculated based on performance data given in the ETA.

Nominal hole diameter	d_0	[mm]	10	12	14	18	20	25	32	35	40
Effective anchorage depth	$h_{ef,min}$	[mm]	60	60	70	75	80	90	100	112	128
	$h_{ef,max}$	[mm]	160	200	240	280	320	400	500	560	640
Minimum thickness of concrete member	h_{min}	[mm]	110	120	140	161	165	220	274	340	380
Minimum spacing	s_{min}	[mm]	40	50	60	70	75	95	120	130	150
Minimum edge distance	c_{min}	[mm]	35	40	45	50	50	60	70	75	85



Installation REBAR