

INJECTION SYSTEM WIT-PE 1000



585 ml



Approvals and certificates

p. 34-36

Cartridge s	izes	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









Internal threaded rod	Rebar

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EPD (Institut Bours and Utmorit CV

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

Pre-positioned	In-place	Stand-off		
√	-	1		
Installation condition				
Dry concrete	Wet concrete	Flooded drill hol		
✓	✓	✓		
Drilling method				
Hammer drill	Diamond drill	Hollow drill		
	1			

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



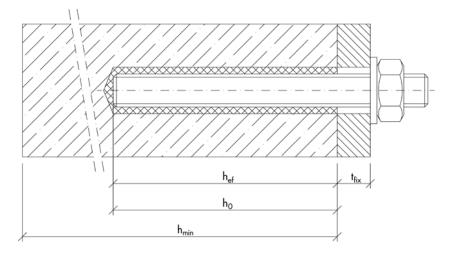
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Loads - concrete

Thread size		M8	M10	M12	M16	M20	M24	M27	M30		
				80	90	110	125	170	210	240	270
Non-cracked	Concrete										
	5.8			8.7	13.8	20.1	32.7	51.9	71.3	87.1	103.9
Tension	8.8	N _{rec}	[kN]	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		[kN]	6.3	9.9	14.5	26.9	42.0	60.5	78.7	96.2
	8.8	V _{rec}		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 Con	crete										
.	5.8/8.8	N.	[LNI]	6.7	9.4	16.8	22.9	36.3	49.9	61.0	72.7
Tension	A4-70	N _{rec}	[kN]	6.7	9.4	16.8	22.9	36.3	49.9	57.4	70.2
	5.8		[kN]	6.3	9.9	14.5	26.9	42.0	60.5	78.7	96.2
Shear	8.8	V _{rec}		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

 $^{^{11}}$ Loads are valid for single anchors. Normal spaced reinforcement in ≥ C20/25. Material safety factor γ_{tx} and safety factor for action γ_{tx} = 1.4 are included. The material safety factor depends on the failure mode. 21 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

























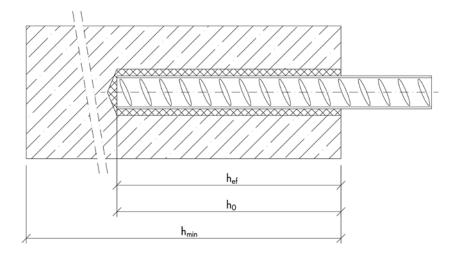
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Loads - REBAR

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	e											
Tension	B500B	N _{rec}	[kN]	6.7	9.4	16.8	22.3	22.9	36.3	49.9	72.7	85.2
Shear	DOUD	V _{rec}	[kN]	6.5	10.3	14.8	20.2	26.3	41.1	64.3	80.7	105.3

 $^{^{11}}$ Loads are valid for single anchors. Normal spaced reinforcement in ≥ C20/25. Material safety factor γ_{tx} and safety factor for action γ_{tx} = 1.4 are included. The material safety factor depends on the failure mode. 21 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 _o	[mm]	10	12	14	18	20	25	32	35	40
Effective anchorage aepin	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





















