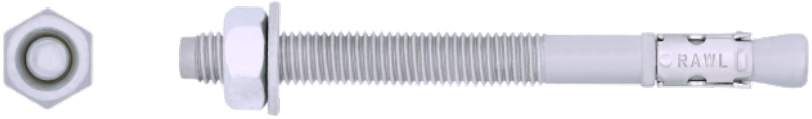
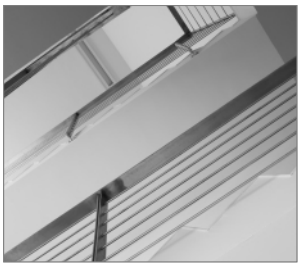
R-XPT-HD Hot Dip Galvanized Throughbolt

Hot Dip Galvanized throughbolt for non-cracked concrete





Product information

Features and benefits

- Increased corrosion resistance due to hot dip zinc external protection layer
- R-XPT is suitable for reduced embedment to avoid contact with reinforcement
- Embedment depth markings help to ensure precise installation of the anchor
- Design of R-XPTII allows drilling and installing directly through the fixture and helps to reduce installation time
- High quality with cost effectiveness
- Cold formed body ensures consistent dimensional accuracy

Applications

- Cladding restraint
- Curtain wall
- Balustrading
- Barriers
- Handrails
- Racking
- Structural steel
- Bollards

Base materials

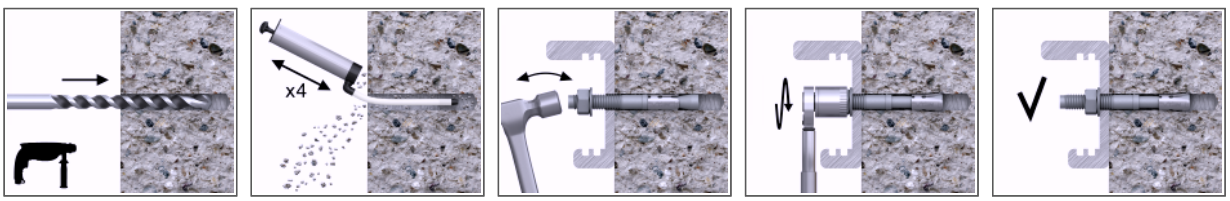
Approved for use in:

- Non-cracked concrete C20/25-C50/60
- Unreinforced concrete
- Reinforced concrete

Also suitable for use in:

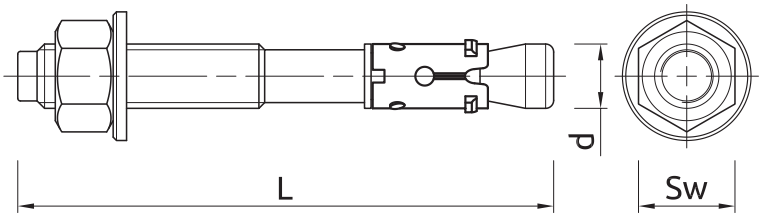
- Natural Stone

Installation guide



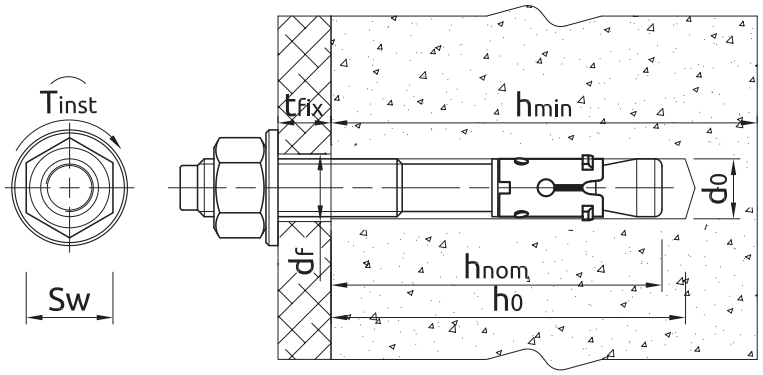
1. Drill a hole of required diameter and depth
2. Clear the hole of drilling dust and debris (using blowpump or equivalent method)
3. Lightly tap the throughbolt through the fixture into hole with a hammer, until fixing depth is reached
4. Tighten to the recommended torque

Product information



Size	Product Code	Anchor		Fixture		
		Diameter	Length	Max. thickness		Hole diameter
		d	L	$t_{fix,r}$	$t_{fix,s}$	d_f
		[mm]	[mm]	[mm]	[mm]	[mm]
M6	R-XPT-HD-06050/10	6	50	10	-	7
	R-XPT-HD-06085/25	6	85	45	25	7
	R-XPT-HD-06100/40	6	100	60	40	7
M8	R-XPT-HD-08050/5	8	50	5	-	9
	R-XPT-HD-08060/10	8	60	10	-	9
	R-XPT-HD-08065/15	8	65	15	-	9
	R-XPT-HD-08075/10	8	75	25	10	9
	R-XPT-HD-08080/15	8	80	30	15	9
	R-XPT-HD-08095/30	8	95	45	30	9
	R-XPT-HD-08115/50	8	115	65	50	9
	R-XPT-HD-08140/75	8	140	90	75	9
M10	R-XPT-HD-10065/5	10	65	5	-	11
	R-XPT-HD-10080/10	10	80	20	10	11
	R-XPT-HD-10095/25	10	95	35	25	11
	R-XPT-HD-10115/45	10	115	55	45	11
	R-XPT-HD-10130/60	10	130	70	60	11
	R-XPT-HD-10140/70	10	140	80	70	11
M12	R-XPT-HD-12080/5	12	80	5	-	13
	R-XPT-HD-12100/5	12	100	25	5	13
	R-XPT-HD-12120/25	12	120	45	25	13
	R-XPT-HD-12125/30	12	125	50	30	13
	R-XPT-HD-12135/40	12	135	60	40	13
	R-XPT-HD-12150/55	12	150	75	55	13
	R-XPT-HD-12180/85	12	180	105	85	13
	R-XPT-HD-12220/125	12	220	145	125	13
M16	R-XPT-HD-16100/5	16	100	5	-	18
	R-XPT-HD-16105/10	16	105	10	-	18
	R-XPT-HD-16125/5	16	125	25	5	18
	R-XPT-HD-16140/20	16	140	40	20	18
	R-XPT-HD-16150/30	16	150	50	30	18
	R-XPT-HD-16160/40	16	160	60	40	18
	R-XPT-HD-16180/60	16	180	80	60	18
	R-XPT-HD-16220/100	16	220	120	100	18
M20	R-XPT-HD-20125/5	20	125	5	-	22
	R-XPT-HD-20160/20	20	160	40	20	22
	R-XPT-HD-20200/80	20	200	80	60	22
M24	R-XPT-HD-24260/100	24	260	115	100	26

Installation data



Size			M6	M8	M10	M12	M16	M20	M24
Thread diameter	d	[mm]	6	8	10	12	16	20	24
Hole diameter in substrate	d_0	[mm]	6	8	10	12	16	20	24
Installation torque	T_{inst}	[Nm]	5	15	30	50	100	200	300
Wrench size	Sw	[mm]	10	13	17	19	24	30	36
STANDARD EMBEDMENT DEPTH									
Min. hole depth in substrate	$h_{0,s}$	[mm]	55	60	65	85	105	125	140
Installation depth	$h_{nom,s}$	[mm]	50	55	59	80	100	119	135
Min. substrate thickness	$h_{min,s}$	[mm]	84	100	100	136	170	198	224
Min. spacing	$s_{min,s}$	[mm]	45	50	55	75	90	140	180
Min. edge distance	$c_{min,s}$	[mm]	50	40	50	65	80	100	200
REDUCED EMBEDMENT DEPTH									
Min. hole depth in substrate	$h_{0,r}$	[mm]	35	45	55	65	85	105	125
Installation depth	$h_{nom,r}$	[mm]	30	40	49	60	80	99	120
Min. substrate thickness	$h_{min,r}$	[mm]	80	100	100	100	130	158	194
Min. spacing	$s_{min,r}$	[mm]	40	45	55	100	100	125	160
Min. edge distance	$c_{min,r}$	[mm]	45	40	65	100	100	125	160

Mechanical properties

Size			M6	M8	M10	M12	M16	M20	M24
Nominal ultimate tensile strength - tension	f_{uk}	[N/mm²]	400	400	400	400	400	480	480
Nominal ultimate tensile strength - shear	f_{uk}	[N/mm²]	520	520	520	520	520	520	680
Nominal yield strength - tension	f_{yk}	[N/mm²]	539	531	531	531	531	531	496
Nominal yield strength - shear	f_{yk}	[N/mm²]	416	416	416	416	416	416	544
Cross sectional area - tension	A_s	[mm²]	15.2	25.5	40.7	60.1	106.6	162.9	311
Cross sectional area - shear	A_s	[mm²]	20.1	36.6	58	84.3	157	245	353
Elastic section modulus	W_{el}	[mm³]	12.7	31.2	62.3	109.2	277.5	540.9	935.5
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	7.1	17	35	61	155	302	651
Design bending resistance	M	[Nm]	5.7	14	28	49	124	241	521

Basic performance data

Performance data for single anchor without influence of edge distance and spacing

Size		M6	M8	M10	M12	M16	M20	M24
MEAN ULTIMATE LOAD								
TENSION LOAD $N_{Ru,m}$								
Standard embedment depth	[kN]	8.68	16.15	20.03	29.95	47.87	58.40	71.73
Reduced embedment depth	[kN]	4.20	9.61	12.91	20.95	34.75	46.60	61.57
SHEAR LOAD $V_{Ru,m}$								
Standard embedment depth	[kN]	6.66	12.15	19.24	27.95	51.54	80.85	152.33
Reduced embedment depth	[kN]	6.66	12.15	16.00	27.95	51.54	80.85	152.33

Basic performance data

Design performance data

Standard embedment depth

Size			M6	M8	M10	M12	M16	M20	M24
Effective embedment depth	h_{ef}	[mm]	42.00	47.00	49.00	68.00	85.00	99.00	112.00
TENSION LOAD									
STEEL FAILURE									
Characteristic resistance	$N_{Rk,s}$	[kN]	9.58	15.80	25.20	37.30	66.10	101.00	180.39
Design resistance γ_{Ms}= 1.4	$N_{Rd,s}$	[kN]	6.84	11.29	18.00	26.64	47.21	72.14	128.85
PULL-OUT FAILURE; NON-CRACKED CONCRETE C20/25									
Characteristic resistance	$N_{Rk,p}$	[kN]	6.85	9.72	12.61	20.17	27.59	35.02	41.89
Design resistance γ_{Mp}= 2.52	$N_{Rd,p}$	[kN]	2.72	3.86	5.00	8.00	10.95	13.90	16.62
Increasing factors for $N_{Rd,p}$ - C30/37	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Increasing factors for $N_{Rd,p}$ - C40/50	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Increasing factors for $N_{Rd,p}$ - C50/60	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Spacing	$s_{cr,N}$	[mm]	126.00	141.00	147.00	204.00	255.00	297.00	336.00
Edge distance	$c_{cr,N}$	[mm]	63.00	71.00	74.00	102.00	128.00	149.00	168.00
SHEAR LOAD									
CONCRETE EDGE FAILURE; NON-CRACKED CONCRETE C20/25									
Edge distance	c_1	[mm]	50.00	40.00	50.00	65.00	80.00	100.00	200.00
Characteristic resistance for c_1	$V_{Rk,c}$	[kN]	6.39	5.03	7.07	10.96	15.77	22.56	58.63
Design resistance γ_{Mc}= 1.8	$V_{Rd,c}$	[kN]	3.55	2.79	3.93	6.09	8.76	12.53	32.57
CONCRETE PRY-OUT FAILURE; NON-CRACKED CONCRETE C20/25									
	k	-	1.00	1.00	1.00	2.00	2.00	2.00	2.00
Characteristic resistance	$V_{Rk,cp}$	[kN]	6.85	9.72	12.61	40.34	55.18	70.04	83.78
Design resistance γ_{Mc}= 2.52	$V_{Rd,cp}$	[kN]	2.72	3.86	5.00	16.01	21.90	27.79	33.25
STEEL FAILURE									
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	5.50	10.10	16.00	23.30	43.00	67.40	126.94
Design resistance γ_{Ms}= 1.25	$V_{Rd,s}$	[kN]	4.40	8.08	12.80	18.64	34.40	53.92	101.55

Design performance data

Reduction / increasing resistance factors for edge distance and spacing

Edge distance (tension)

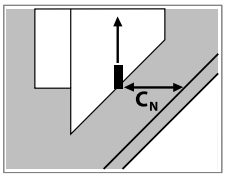


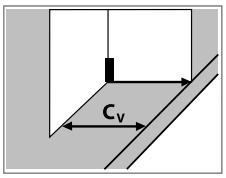
Table only valid for one edge $<C_{cr,N}$ and $S \geq S_{cr,N}$ For other cases use the Rawlplug Anchor Calculator

Reduction factors for edge distance $<C_{cr,N}$ applicable to N_{Rd} or N_{rec} for non-cracked concrete from 'Basic Performance' table

c_N [mm]	M6		M8		M10		M12		M16		M20		M24	
	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}
40														
50	0,84	0,58	0,78	0,58	0,76	0,56								
55	0,90	0,61	0,83	0,61	0,81	0,59								
65	1,00	0,66	0,94	0,66	0,91	0,64	0,73	0,54						
70		0,69	1,00	0,69	0,96	0,66	0,76	0,56						
75		0,72		0,72	1,00	0,69	0,80	0,58						
80		0,75		0,75		0,71	0,83	0,59	0,72	0,56				
90		0,81		0,81		0,77	0,91	0,63	0,78	0,59				
100		0,87		0,87		0,82	0,98	0,66	0,83	0,62	0,78	0,56		
105		0,90		0,90		0,85	1,00	0,68	0,86	0,63	0,80	0,57		
120		1,00		1,00		0,94		0,74	0,95	0,68	0,87	0,61		
130						1,00		0,78	1,00	0,71	0,92	0,63		
160								0,89		0,81	1,00	0,71		
170								0,94		0,84		0,73		
185								1,00		0,89		0,77		
200										0,94		0,81	1,00	0,75
215										1,00		0,85		0,79
265												1,00		0,91
300														1,00

Design performance data

Edge distance (shear)



Tables only valid for one edge $>c_{min}$ and $s \geq 3c_v$ For other cases use the Rawlplug Anchor Calculator

Increasing factors for edge distance $>C_{min}$ applicable to $V_{Rd,c}$ for non-cracked concrete from Design Performance table

c_v [mm]	M6		M8		M10		M12		M16		M20		M24	
	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}
40			1,00	1,00										
50	1,00	1,00	1,35	1,35	1,00	1,00								
60	1,28	1,28	1,72	1,72	1,28	1,28								
65			1,92	1,92	1,42	1,42	1,00	1,00						
80			2,55	2,33	1,88	1,72	1,32	1,32	1,00	1,00				
85			2,78	2,46	2,04	1,81	1,43	1,43	1,08	1,08				
100				2,84	2,55	2,08	1,77	1,69	1,34	1,34	1,00	1,00		
115					3,09	2,35	2,14	1,90	1,61	1,60	1,20	1,20		
150						2,98	3,07	2,39	2,29	1,99	1,69	1,59		
195								3,00	3,26	2,48	2,40	1,97		
200									3,37	2,54	2,48	2,02	1,00	0,86
220									3,84	2,75	2,82	2,18	1,13	0,93
300										3,61	4,29	2,85	1,72	1,21
320										3,82		3,01	1,87	1,28
385												3,53	2,41	1,50
480												4,29		1,81
650														2,37

Design performance data

Spacing

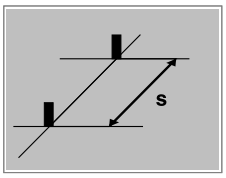


Table only valid for one spacing $<s_{cr,N}$ and $c \geq c_{cr,N}$ For other cases use the Rawlplug Anchor Calculator

Reduction factors for spacing $<S_{cr,N}$ applicable to N_{Rd} / V_{Rd} or N_{rec} / V_{rec} for non-cracked concrete from 'Basic Performance' table

s	M6		M8		M10		M12		M16		M20		M24	
[mm]	h≥ 1.84h_{min}	hmin	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}
45	0,68	0,59												
50	0,70	0,60	0,68	0,60										
55	0,72	0,61	0,70	0,61	0,69	0,61								
75	0,80	0,66	0,77	0,66	0,76	0,64	0,68	0,60						
90	0,86	0,69	0,82	0,69	0,81	0,67	0,72	0,62	0,68	0,60				
100	0,90	0,71	0,85	0,71	0,84	0,69	0,75	0,64	0,70	0,62				
125	1,00	0,76	0,94	0,76	0,93	0,74	0,81	0,67	0,75	0,65				
140		0,79	1,00	0,79	0,98	0,77	0,84	0,69	0,77	0,66	0,74	0,63		
150		0,81		0,81	1,00	0,79	0,87	0,70	0,79	0,67	0,75	0,64		
180		0,88		0,88		0,85	0,94	0,74	0,85	0,71	0,80	0,67	0,77	0,65
200		0,92		0,92		0,88	0,99	0,77	0,89	0,73	0,84	0,69	0,80	0,67
205		0,93		0,93		0,89	1,00	0,78	0,90	0,74	0,85	0,69	0,81	0,67
240		1,00		1,00		0,96		0,82	0,97	0,78	0,90	0,73	0,86	0,70
255						0,99		0,84	1,00	0,80	0,93	0,74	0,88	0,71
260						1,00		0,85		0,80	0,94	0,75	0,89	0,72
300								0,91		0,85	1,00	0,78	0,95	0,75
335								0,95		0,89		0,82	1,00	0,78
370								1,00		0,93		0,85		0,81
430										1,00		0,91		0,86
530												1,00		0,94
600														1,00

Design performance data

Reduced embedment depth

Size			M6	M8	M10	M12	M16	M20	M24
Effective embedment depth	h_{ef}	[mm]	22.00	32.00	39.00	48.00	65.00	79.00	97.00
TENSION LOAD									
STEEL FAILURE									
Characteristic resistance	$N_{Rk,s}$	[kN]	9.58	15.80	25.20	37.30	66.10	101.00	180.39
Design resistance γ_{Ms}= 1.4	$N_{Rd,s}$	[kN]	6.84	11.29	18.00	26.64	47.21	72.14	128.85
PULL-OUT FAILURE; NON-CRACKED CONCRETE C20/25									
Characteristic resistance	$N_{Rk,p}$	[kN]	2.98	6.05	8.87	12.87	19.36	28.05	35.36
Design resistance γ_{Mp}= 2.52	$N_{Rd,p}$	[kN]	1.18	2.40	3.52	5.11	7.68	11.13	14.03
Increasing factors for $N_{Rd,p}$ - C30/37	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Increasing factors for $N_{Rd,p}$ - C40/50	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Increasing factors for $N_{Rd,p}$ - C50/60	Ψ_c	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Spacing	$s_{cr,N}$	[mm]	66.00	96.00	117.00	144.00	195.00	237.00	291.00
Edge distance	$c_{cr,N}$	[mm]	33.00	48.00	59.00	72.00	98.00	119.00	146.00
SHEAR LOAD									
CONCRETE EDGE FAILURE; NON-CRACKED CONCRETE C20/25									
Edge distance	c_1	[mm]	45.00	40.00	65.00	100.00	100.00	125.00	160.00
Characteristic resistance for c_1	$V_{Rk,c}$	[kN]	5.05	4.70	9.67	18.36	20.04	28.81	42.54
Design resistance γ_{Mc}= 1.8	$V_{Rd,c}$	[kN]	2.80	2.61	5.37	10.20	11.13	16.00	23.63
CONCRETE PRY-OUT FAILURE; NON-CRACKED CONCRETE C20/25									
	k	-	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Characteristic resistance	$V_{Rk,cp}$	[kN]	2.98	6.05	8.87	12.87	38.72	56.10	42.54
Design resistance γ_{Mc}= 2.52	$V_{Rd,cp}$	[kN]	1.18	2.40	3.52	5.11	15.37	22.26	28.06
STEEL FAILURE									
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	5.50	10.10	16.00	23.30	43.00	67.40	126.94
Design resistance γ_{Ms}= 1.25	$V_{Rd,s}$	[kN]	4.40	8.08	12.80	18.64	34.40	53.92	101.55

Reduction / increasing resistance factors for edge distance and spacing

Edge distance (tension)

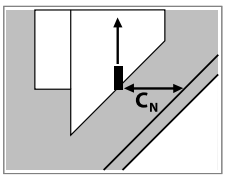


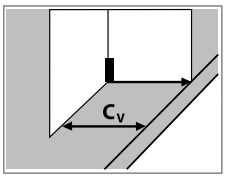
Table only valid for one edge $<C_{cr,N}$ and $S \geq S_{cr,N}$ For other cases use the Rawlplug Anchor Calculator

Reduction factors for edge distance $<C_{cr,N}$ applicable to N_{Rd} or N_{rec} for non-cracked concrete from 'Basic Performance' table

c_N [mm]	M6		M8		M10		M12		M16		M20		M24	
	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}	$h \geq 1.84h_{min}$	h_{min}
40														
45	1,00	0,68	0,95	0,68										
50		0,72	1,00	0,72										
65		0,86		0,86	1,00	0,74								
80		1,00		1,00		0,85								
90						0,92								
100						1,00	1,00	0,85	1,00	0,67				
120								0,97		0,75				
125								1,00		0,77	1,00	0,71		
150										0,87		0,80		
160										0,91		0,83	1,00	0,71
180										1,00		0,90		0,77
205												1,00		0,84
240														0,94
260														1,00

Design performance data

Edge distance (shear)



Tables only valid for one edge $>c_{min}$ and $s \geq 3c_v$ For other cases use the Rawlplug Anchor Calculator

Increasing factors for edge distance $>C_{min}$ applicable to $V_{Rd,c}$ for non-cracked concrete from Design Performance table

c_v [mm]	M6		M8		M10		M12		M16		M20		M24	
	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}	$h \geq 1.5c_v$	h_{min}
40														
45	1,00	1,00	1,17	1,17										
60	1,50	1,50	1,74	1,74										
65			1,94	1,94	0,98	0,98								
75			2,37	2,23	1,22	1,15								
80			2,59	2,37	1,18	1,18								
90			3,06	2,63	1,22	1,21								
100				2,89			1,00	0,82	1,00	0,93				
105				3,02			1,07	0,85	1,07	0,97				
125							1,36	0,99	1,35	1,12	1,00	0,92		
155							1,83	1,20	1,80	1,35	1,33	1,10		
160								1,23	1,88	1,38	1,39	1,13	1,00	0,90
230								1,70	3,09	1,90	2,26	1,53	1,62	1,21
240								1,77		1,97	2,40	1,59	1,71	1,26
250										2,04		1,65	1,81	1,30
380										2,96		2,37	3,19	1,86
388										3,02			3,29	1,90
720														3,27

Design performance data

Spacing

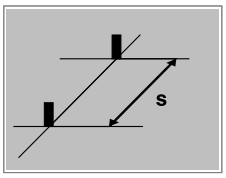


Table only valid for one spacing $<s_{cr,N}$ and $c \geq c_{cr,N}$ For other cases use the Rawlplug Anchor Calculator

Reduction factors for spacing $<S_{cr,N}$ applicable to N_{Rd} / V_{Rd} or N_{rec} / V_{rec} for non-cracked concrete from 'Basic Performance' table

s	M6		M8		M10		M12		M16		M20		M24	
[mm]	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}	h≥ 1.84h_{min}	h_{min}
40	0,80	0,63												
45	0,84	0,64	0,73	0,64										
55	0,92	0,67	0,79	0,67	0,74	0,64								
65	1,00	0,70	0,84	0,70	0,78	0,66								
95		0,80	1,00	0,80	0,91	0,74								
100		0,81		0,81	0,93	0,75	0,85	0,70	0,76	0,64				
120		0,88		0,88	1,00	0,80	0,92	0,74	0,81	0,67				
125		0,89		0,89		0,81	0,93	0,75	0,82	0,67	0,76	0,65		
145		0,95		0,95		0,86	1,00	0,79	0,87	0,70	0,81	0,68		
160		1,00		1,00		0,90		0,82	0,91	0,72	0,84	0,70	0,77	0,65
195						1,00		0,89	1,00	0,77	0,91	0,74	0,84	0,69
200								0,90		0,78	0,92	0,74	0,84	0,69
240								0,98		0,83	1,00	0,79	0,91	0,73
250								1,00		0,85		0,80	0,93	0,74
290										0,90		0,85	1,00	0,78
360										1,00		0,94		0,85
410												1,00		0,89
520														1,00

Product commercial data

Size	Product Code	Anchor		Quantity [pcs]			Weight [kg]			Bar Codes
		Diameter [mm]	Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
M6	R-XPT-HD-06050/10	6	50	100	100	58200	1.32	1.32	798.2	5906675277844
	R-XPT-HD-06085/25	6	85	100	100	39100	2.0	2.0	792.5	5906675277851
	R-XPT-HD-06100/40	6	100	100	100	6700	2.2	2.2	178.7	5906675277868
M8	R-XPT-HD-08050/5	8	50	100	100	9800	2.3	2.3	259.3	5906675277875
	R-XPT-HD-08060/10	8	60	100	100	10000	2.8	2.8	305.0	5906675234007
	R-XPT-HD-08065/15	8	65	100	100	10000	2.9	2.9	318.0	5906675277882
	R-XPT-HD-08075/10	8	75	100	100	12000	3.2	3.2	414.0	5906675234014
	R-XPT-HD-08080/15	8	80	100	100	12000	3.3	3.3	422.4	5906675277899
	R-XPT-HD-08095/30	8	95	100	100	9900	3.8	3.8	403.2	5906675234618
	R-XPT-HD-08115/50	8	115	100	100	12000	4.4	4.4	561.6	5906675234038
	R-XPT-HD-08140/75	8	140	100	100	7600	5.2	5.2	426.7	5906675234045
M10	R-XPT-HD-10065/5	10	65	50	50	10000	2.4	2.4	510.0	5906675234052
	R-XPT-HD-10080/10	10	80	50	50	6000	2.8	2.8	362.4	5906675234069
	R-XPT-HD-10095/25	10	95	50	50	6000	3.2	3.2	408.6	5906675234076
	R-XPT-HD-10115/45	10	115	50	50	6000	3.7	3.7	472.2	5906675234083
	R-XPT-HD-10130/60	10	130	50	50	6000	4.0	4.0	514.8	5906675277905
	R-XPT-HD-10140/70	10	140	50	50	6000	4.4	4.4	553.8	5906675234090
M12	R-XPT-HD-12080/5	12	80	50	50	6000	4.1	4.1	520.8	5906675234106
	R-XPT-HD-12100/5	12	100	50	50	6000	4.8	4.8	607.2	5906675234113
	R-XPT-HD-12120/25	12	120	50	50	6000	5.6	5.6	698.4	5906675277912

Product commercial data