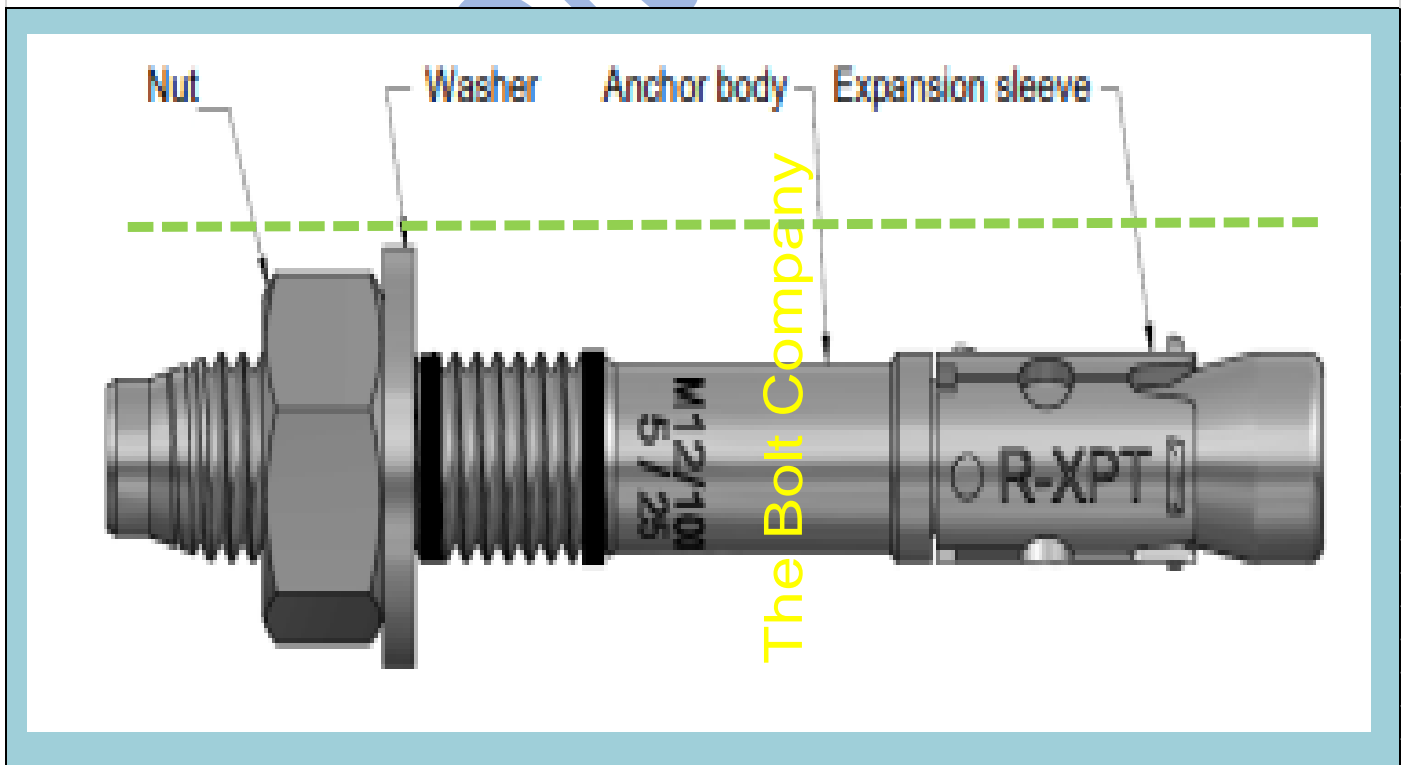
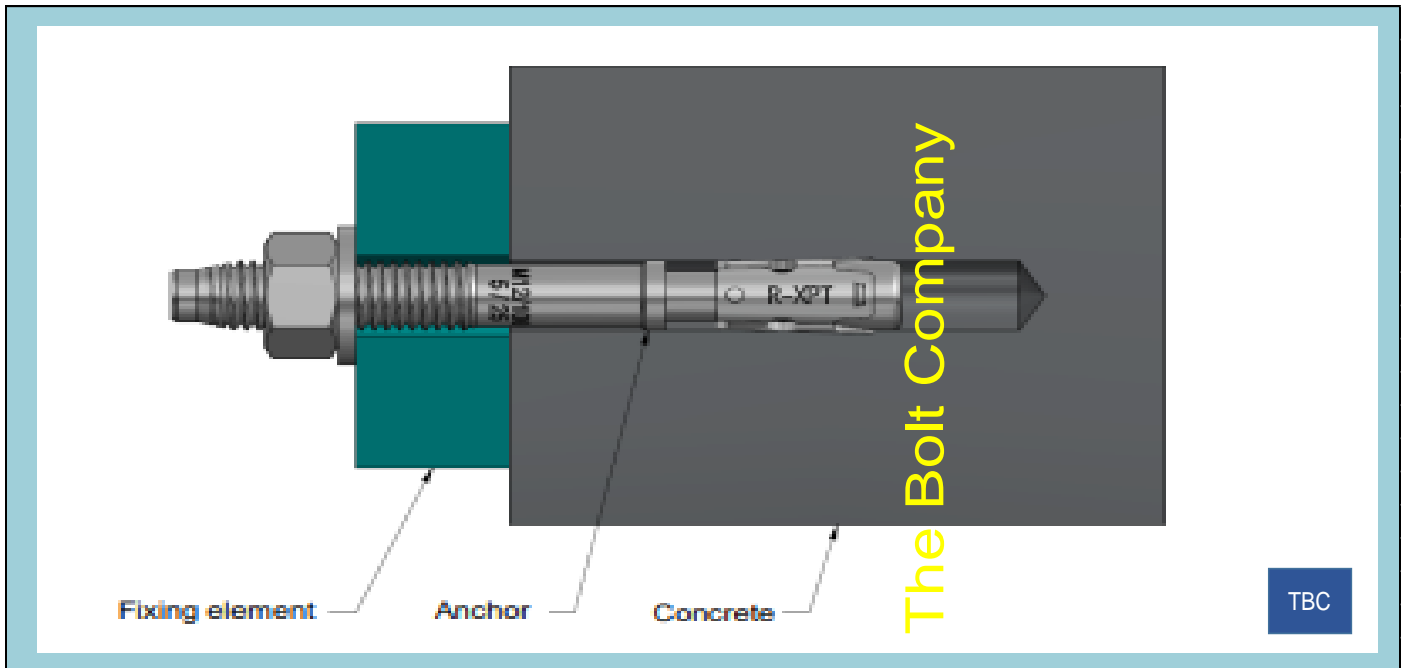


ETA Anchor Approved and Non-Approved Throughbolts

Available Grades and Coatings		Zinc Plated	●	
		Galvanised	●	
	A2	A2 Stainless Steel	●	
Fitting Tool	Allen Head Socket or Allen Key	A4	A4 Stainless Steel	●



ETA Anchor Approved and Non-Approved Thru Bolts

Length (L)	Diameter (M)																	
	Size	M2	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M36
20																		
25																		
30																		
35																		
40																		
45																		
50						●												
55									●									
60								●										
65																		
70																		
75							●	●										
80							●	●	●									
85						●												
98							●	●										
100								●					●					
115								●										
120							●	●	●				●					
130								●										
125													●					
140							●	●	●				●					
150								●				●	●					
160									●									
180								●	●			●		●				
200								●					●					
220									●									
260															●			
280									●									
300													●	●				
320																		
350																		

The Bolt Company

The Bolt Company

Chart Information

The green dots represent that these sizes are considered standard and normally have a stock holding on the shelf. The blue dots identify, non preferred items that can typically be ordered or have a small stock holding. The white spaced represent sizes that are non standard and therefor require specify ordering or may not be available at all. You can contact the sales team and they can advise if there is a likelihood of these sizes be sourced.

Ordering Information	Coatings		Colour Key Information		Graphic
	Zinc Plate	●	Standard product and is usually readily available	●	
Stainless A2	●	Non standard needs to be ordered or small stock holding only	●		
A4 Stainless	●	Non standard typically not available specific enquiry only			
Galvanised	●				
Products ordered are based on box quantities only which may vary					



ETA Anchor Approved and Non-Approved Thru Bolts

Technical Date

The Bolt Company typically stock a Din 603 in the standard strength of 9.8 for cracked concrete ETA approved for Option 7.

Be sure to advise if approved or non-approved is required when ordering

The Bolt Company Team

ETA Anchor Approved and Non-Approved Thru Bolts

Table B1 - Installation parameters

Size	Drill hole diameter d_0 [mm]	Max. hole diameter in fixture $d_r^{1)}$ [mm]	Standard embedment		Reduced embedment		Installation torque T_{inst} [Nm]
			Min. hole depth h_0 [mm]	Nominal embedment depth h_{nom} [mm]	Min. hole depth h_0 [mm]	Nominal embedment depth h_{nom} [mm]	
M8	8	9	65	55	50	40	15
M10	10	12	69	59	59	49	30
M12	12	14	90	80	70	60	50
M16	16	18	110	100	90	80	100
M20	20	22	135	119	115	99	200

¹⁾ For the design of bigger clearance holes in the fixture see EN 1992-4:2018


Table B2 - Installation parameters – Minimum spacing and edge distance

Size		M8		M10		M12		M16		M20	
		Red ¹⁾	Std	Red ¹⁾	Std	Red	Std	Red	Std	Red	Std
Minimum thickness of concrete member	h_{min} [mm]	100	100	100	100	100	136	130	170	158	198
Minimum spacing for edge distance $c \geq$	s_{min} [mm]	45	50	55	55	100	75	100	90	125	140
	[mm]	50	55	65	65	100	90	100	105	125	160
Minimum edge distance for spacing $s \geq$	c_{min} [mm]	40	40	65	50	100	65	100	80	125	100
	[mm]	100	100	55	90	100	100	100	150	125	200


¹⁾ Use restricted to anchoring statically indeterminate structural components

Installation instructions


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 required torque
5.



Assembled condition of anchor