

Product Information

The Ankerbolt is a specially hardened screw with a double profile thread which cuts its own thread in the base material. Suitable for use in solid concrete, hollow concrete, bricks, dense blocks and most natural stone. Zinc plated and clear passivated minimum 5µm.

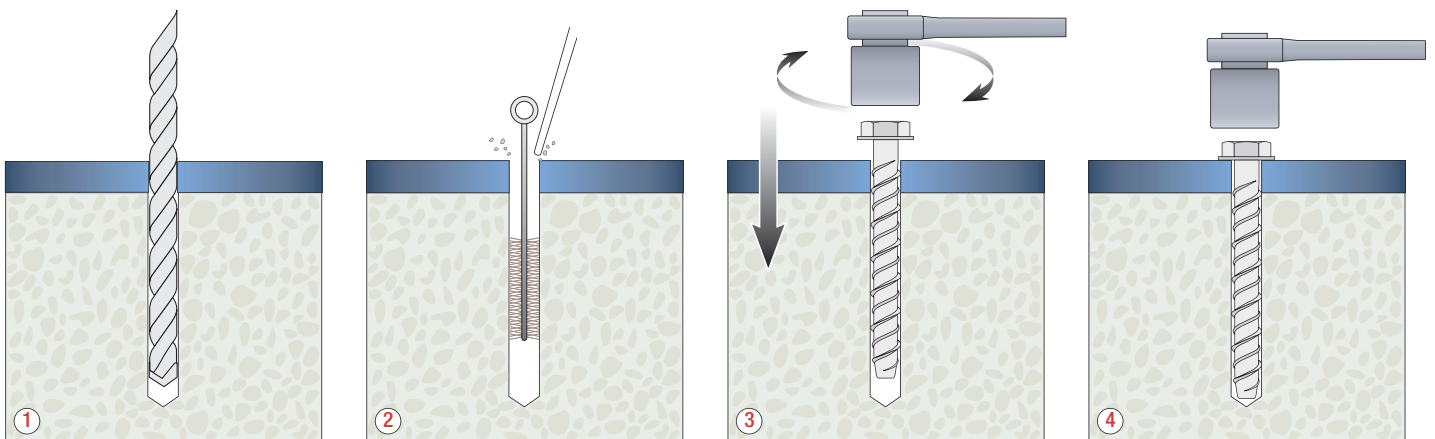
Features

- 1 Hardened Self-Tapping screw
- 2 Suitable for most materials
- 3 Removable
- 4 Wide range of sizes

Range Data

Part Number	Thread Diameter mm	Anchor Length mm	Hole Diameter mm	Maximum Fixture Thickness mm	Fixture Clearance Hole mm	Embedment Depth mm	Hole Depth mm	Minimum Structure Thickness mm	Tightening Torque Nm
JAB06050	6	50	5	20	7	30	35	60	15
JAB06075		75		45					
JAB08030	8	30	6	5	10	25	35	60	25
JAB08050		50		20					
JAB08075		75		45					
JAB08100		100		70					
JAB08130		130		100					
JAB08150		150		120					
JAB08050CS		50		20		30	40	60	
JAB08075CS		75		45					
JAB08100CS		100		70					
JAB08130CS		130		100					
JAB08150CS	150	120							
JAB10060	10	60	8	20	12	40	55	90	40
JAB10075		75		35					
JAB10100		100		60					
JAB10150		150		110					
JAB12060	12	60	10	10	14	50	70	110	60
JAB12075		75		25					
JAB12100		100		50					
JAB12150		150		100					
JAB14075	14	75	12	15	16	60	85	125	80
JAB14100		100		40					
JAB14130		130		70					
JAB14150		150		90					
JAB14200		200		140					
JAB18100	18	100	16	20	20	80	105	140	100
JAB18150		150		70					
JAB18200		200		120					

Installation Instructions



1 Position fixture and drill correct diameter hole to correct depth

2 Remove all dust by brushing and blowing

3 Insert Ankerbolt through fixture and screw down using a downward pressure

4 Tighten Ankerbolt to Recommended Torque

Performance Data (20/25 Concrete)									
Thread Diameter mm	Characteristic Resistance kN		Design Resistance kN		Recommended Load kN		Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
6	3.0	5.8	1.4	4.6	1.0	3.3	90	45	60
8	6.0	6.3	2.7	5.0	1.9	3.6	100	50	80
10	9.0	15.0	4.1	12.0	2.9	8.6	120	60	90
12	13.5	25.0	6.1	20.0	4.4	14.3	170	80	120
14	19.5	33.8	8.9	27.0	6.3	19.3	200	90	140
18	26.4	42.5	12.0	34.0	8.6	24.3	260	120	160

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

Reduced Design Resistance (kN) • Divide Loads by 1.4 for Recommended Loads

Edge mm	Tensile Resistance						Shear Resistance						Spacing mm	Tensile Resistance per Pair of Anchors					
	M6	M8	M10	M12	M14	M18	M6	M8	M10	M12	M14	M18		M6	M8	M10	M12	M14	M18
35	1.2												40	2.0					
40	1.3	2.3					3.1						45	2.1	3.9				
45	1.4	2.5	3.4				3.5	2.8					50	2.2	4.1				
50		2.7	3.6	4.5			3.8	3.1	6.7				55	2.3	4.2	6.0			
55			3.9	4.8	6.5		4.2	3.4	7.3				60	2.3	4.4	6.2			
60			4.1	5.0	6.8	7.8	4.6	3.8	8.0	10.0			70	2.5	4.6	6.5	8.6		
70				5.6	7.5	8.5		4.4	9.3	11.7			80	2.6	4.9	6.8	9.0		
80				6.1	8.2	9.2		5.0	10.7	13.3			90	2.8	5.1	7.2	9.3		
90					8.9	9.9			12.0	15.0	17.4		100		5.4	7.5	9.7	13.4	
100						10.6				16.7	19.3		120			8.2	10.4	14.2	17.5
110						11.3				18.3	21.2		130				10.8	14.7	18.0
120						12.0				20.0	23.1		140				11.1	15.1	18.5
125													150				11.5	15.6	18.9
130													160				11.8	16.0	19.4
140													170				12.2	16.5	19.8
150													180					16.9	20.3
160													200					17.8	21.2
													220						22.2
													240						23.1
													260						24.0

Influence of Concrete Strength

Concrete Strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm ²	20	25	30	40	45	50
Cube	N/mm ²	25	30	37	50	55	60
Factor		1.00	1.10	1.22	1.41	1.48	1.55

When using concrete factors check all other information to ensure Steel Tensile and Shear Resistance is not exceeded

Anchor Mechanical Properties

		M6	M8	M10	M12	M14	M18
Tension	kN	4.9	8.7	13.9	20.3	29.3	49.2
Shear	kN	4.6	5.0	12.0	20.0	27.0	34.0

Anchor Mechanical Properties

		M6	M8	M10	M12	M14	M18
Tensile Strength	N/mm ²	800	800	800	800	800	800
Yield Strength	N/mm ²	600	600	600	600	600	600
Bolt A/F	mm	8	10	15	17	19	27
Flange Diameter	mm	11	14				