



### Product Information

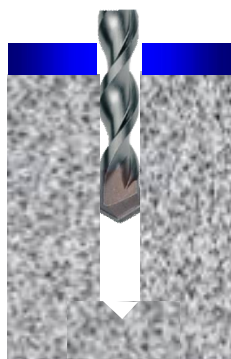
A zinc plated, self tapping fixing suitable for use in cracked and non-cracked concrete range between C20/25 & C50/60.

### Features

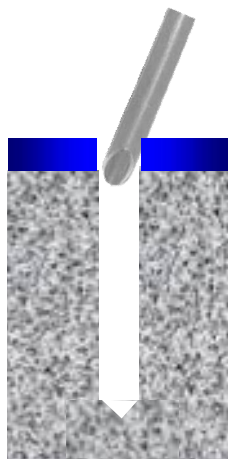
Through Fixing  
 Medium to heavy duty loads  
 Positive location  
 Option 1 European Technical Approval  
 No expansion forces

### Range Data

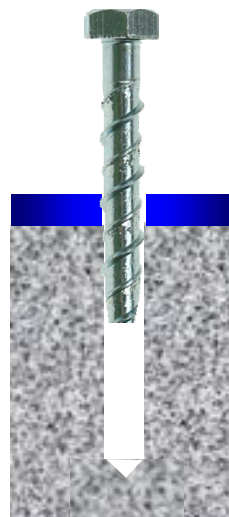
Part Number	Drill Diam	Thread Diam	Anchor Length	Max Fixture Thick.	Fixture Clearance Hole	Min Hole Depth	Minimum Structure Thickness	Drive Socket Size	Tightening Torque
	mm	mm	mm	mm	mm	mm	mm	mm	Nm
JAB08/10075ETA	8	10	75	10	12	75	110	15A/F	30
JAB08/10100ETA			100	35					
JAB08/10130ETA			130	65					
JAB08/10150ETA			150	85					
JAB10/12100ETA	10	12	100	25	14	85	110	17A/F	40
JAB10/12130ETA			130	55					
JAB10/12150ETA			150	75					
JAB12/14100ETA	12	14	100	5	16	105	130	19A/F	50
JAB12/14130ETA			130	35					
JAB12/14150ETA			150	55					
JAB12/14200ETA			200	105					
JAB14/16150ETA	14	16	150	35	18	125	150	24A/F	60



Position fixture and drill correct diameter hole to correct depth



Blow out dust and drilling debris from hole



Insert anchor through fixture into concrete using suitable impact wrench



Tighten with torque wrench to recommended torque



## Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam	Characteristic Resistance		Design Resistance ( $\gamma_{Ms}$ from ETA)		Approved Resistance ( $\gamma_F=1.4$ )		Spacing	Edge Distance	
mm	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear
10	7.5	11.6	4.1	6.4	2.9	4.5	60	60	110
12	9.0	14.2	4.9	7.9	3.5	5.6	70	70	130
14	16.0	43.0	8.8	23.9	6.3	17.0	105	80	400
16	20.0	57.4	11.1	31.9	7.9	22.7	110	90	480

## Non-Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam	Characteristic Resistance		Design Resistance ( $\gamma_{Ms}$ from ETA)		Approved Resistance ( $\gamma_F=1.4$ )		Spacing	Edge Distance	
mm	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear
10	12.0	16.2	6.6	9.0	4.7	6.4	65	60	110
12	16.0	20.4	8.8	11.1	6.3	7.9	95	70	130
14	25.0	33.8	13.8	26.5	9.9	18.9	140	85	300
16	35.0	53.5	19.4	35.6	13.8	25.4	190	110	370

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

## Tensile Steel Failure

Outside Diameter			10mm	12mm	14mm	16mm
Characteristic Resistance	$N_{Rk,s}$	[kN]	42.2	67.2	99.4	134.0
Partial Safety Factor	$\gamma_{Ms}$	[-]	1.4	1.4	1.4	1.4
Design Resistance	$N_{Rd,s}$	[kN]	30.2	48.0	71.0	95.7
Recommended Resistance	$N_{Rec,s}$	[kN]	21.5	34.2	50.7	68.3

## Influence of concrete strength

Concrete strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm <sup>2</sup>	20	25	30	40	45	50
Cube	N/mm <sup>2</sup>	25	30	37	50	55	60
Factor		1.0	1.1	1.17	1.32	1.37	1.42

For variations in structure thickness, reduced spacing and edge calculations download the free [Anchor Calculation Program](http://www.jcpfixings.co.uk) from [www.jcpfixings.co.uk](http://www.jcpfixings.co.uk)