Ankerbolt

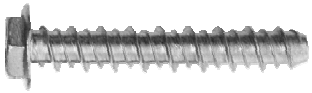
Features

The Ankerbolt is a high strength, self tapping anchor for use in a variety of base materials. The undercutting action provides a positive anchorage with no expansion forces

Range Data

COUNTERSUNK

					Shallow Embedment		Deep Embedment			
Part Number	Drill Diam	Thread Diam	Anchor Length	Fixture Clearance Hole	Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth	Torx Drive	Tightening Torque
	mm	mm	mm	mm	mm	mm	mm	mm		Nm
JAB06/08030CS	6	8	30	10	0(5)	35(30)	N/A	50	T30	25
JAB06/08050CS			50		20		5			
JAB06/08075CS			75		45		30			
JAB06/08100CS			100		70		45			
JAB06/08130CS			130		100		75			
JAB06/08150CS			150		120		95			
JAB08/10060CS	8	10	60	12	20	40	N/A	55	T45	40
JAB08/10075CS			75		35		15			
JAB08/10100CS			100		60		40			
JAB10/12060CS	10	12	60	14	10	55	N/A	75	T50	60
JAB10/12075CS			75		25		N/A			
JAB10/12100CS			100		50		25			



FLANGE HEAD

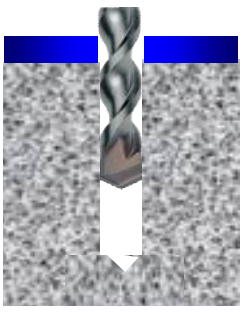
					Shallow Embedment		Deep Embedment			
Part Number	Drill Diam	Thread Diam	Anchor Length	Fixture Clearance Hole	Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth	Head A/F	Tightening Torque
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
JAB05/06050	5	6	50	8	25	35	N/A	50	8	15
JAB05/06075			75		50		38			
JAB06/08030	6	8	30	10	0(5)	35(30)	N/A	50	10	25
JAB06/08050			50		20		5			
JAB06/08075			75		45		30			
JAB06/08100			100		70		55			
JAB06/08130			130		100		85			
JAB06/08150			150		120		105			

Figures in brackets are for reduced embedment in non-load bearing applications

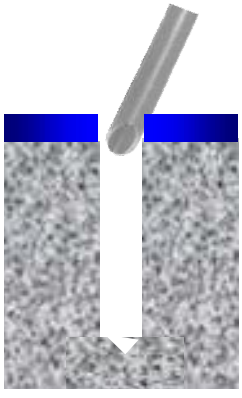
Range Data

HEXAGON HEAD

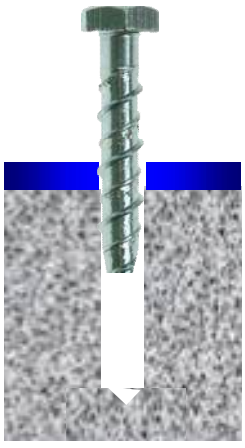
Part Number	Drill Diam	Thread Diam	Anchor Length	Fixture Clearance Hole	Shallow Embedment		Deep Embedment		Head A/F	Tightening Torque
					Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
JAB08/10060	8	10	60	12	20	55	N/A	50	15	40
JAB08/10075			75		35		15			
JAB08/10100			100		60		40			
JAB08/10130			130		90		70			
JAB08/10150			150		110		90			
JAB10/12060	10	12	60	14	10	70	N/A	55	17	60
JAB10/12075			75		25		N/A			
JAB10/12100			100		50		25			
JAB10/12130			130		80		55			
JAB10/12150			150		100		75			
JAB12/14075	12	14	75	16	15	85	N/A	110	19	80
JAB12/14100			100		40		10			
JAB12/14130			130		70		40			
JAB12/14150			150		90		60			
JAB12/14200			200		140		110			
JAB14/16075	14	16	75	18	5	100	N/A	130	24	90
JAB14/16100			100		30		5			
JAB14/16130			130		60		35			
JAB14/16150			150		80		55			
JAB14/16200			200		130		105			
JAB16/18100	16	18	100	20	20	110	N/A	140	27	100
JAB16/18150			150		70		35			
JAB16/18200			200		120		85			



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

Shallow Embedment

Performance Data (C20/25 non-cracked Concrete)											
Drill Diam	Embedment Depth	Minimum Concrete Thickness	Characteristic Resistance		Design Resistance		Approved Resistance		Spacing	Edge Distance	
mm	mm	mm	kN		kN		kN		mm	mm	
			Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear*
5	25	100	3.0	5.2	1.6	3.4	1.1	2.4	30	30	50
6	30	100	6.0	6.4	3.3	4.4	2.3	3.1	65	45	55
8	40	100	9.0	10.4	4.9	6.9	3.5	4.9	80	60	75
10	50	100	13.5	14.7	6.3	9.8	4.5	7.0	90	65	100
12	60	115	14.9	29.8	9.3	19.8	6.5	14.1	115	90	195
14	70	130	18.1	39.9	10.1	26.6	7.2	16.0	120	95	245
16	80	145	25.8	51.6	14.3	34.4	10.2	24.5	150	115	300

Deep Embedment

Performance Data (C20/25 non-cracked Concrete)											
Drill Diam	Embedment Depth	Minimum Concrete Thickness	Characteristic Resistance		Design Resistance		Approved Resistance		Spacing	Edge Distance	
mm	mm	mm	kN		kN		kN		mm	mm	
			Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear*
5	37	100	5.5	6.5	3.0	4.3	2.1	3.0	45	45	55
6	45	100	7.0	9.5	3.8	6.3	2.7	4.5	55	55	65
8	60	105	11.0	17.7	6.1	11.8	4.3	8.4	75	75	120
10	75	125	15.0	28.3	8.3	18.8	5.9	13.4	95	95	175
12	90	140	19.0	40.8	10.5	27.2	7.5	19.4	110	110	235
14	95	160	34.0	56.4	18.8	37.6	13.4	26.8	130	130	305
16	115	175	38.0	73.5	21.1	49.0	15.0	35.0	150	150	380

*** Shear towards a free edge**

Shear Loads towards a free edge are for single anchors where Spacing ≥ 3 x Edge Distance

For variations in structure thickness, reduced spacing and edge calculations download the free Anchor Calculation Program from www.jcpfixings.co.uk

Influence of concrete strength

		8, 10 & 12mm			14 & 16mm		
Concrete strength		C30/37	C40/50	C50/60	C30/37	C40/50	C50/60
Cylinder	N/mm^2	30	40	50	20	40	50
Cube	N/mm^2	37	50	60	25	50	60
Factor		1.17	1.32	1.42	1.22	1.41	1.55

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