

INFORMATION

The Ankerbolt is a zinc plated self tapping anchor for use in a variety of base materials.

The undercutting action provides a positive anchorage with no expansion forces.

The wide range of types and sizes gives flexibility of choosing the correct anchor according to the fixture thickness.

BASE MATERIAL

- Concrete C20/25 to C50/60
- Non-Cracked Concrete
- Hollow Concrete Planks
- Solid Brickwork
- Concrete Block
- Natural Stone

FEATURES

- Undercutting Action
- Fast And Secure Installation
- Expansion Free
- Through Fixing
- High Performance
- Zinc Plated Minimum 5µm (For Dry, Internal Applications Only)
- Mechanical Galvanised Minimum 40µm

RELATED PRODUCTS



SDS+ Drill Bits



Hole Cleaning Pump



Torx Driver Bits
(For Pan Head and Countersunk)

RANGE AND LOAD DATA

RANGE DATA													
Part Number	Drill Hole Diameter (d _o)	Thread Diameter (d _{nom})	Anchor Length (L)	Fixture Clearance Hole (d _f)	Shallow Embedment			Deep Embedment			Min Structure Thickness (h _c)	Width Across Flats (A/F)	Tightening Torque (T _{inst})
					Max Fixture Thickness (t _{fix})	Min Hole Depth (h ₁)	Embedment Depth (h _{nom})	Max Fixture Thickness (t _{fix})	Min Hole Depth (h ₁)	Embedment Depth (h _{nom})			
					mm	mm	mm	mm	mm	mm			
HEXAGON FLANGE HEAD													
JAB05/06050	5	6	50	8	25	35	25	13	50	37	100	8	15
JAB05/06075			75		38								
JAB05/06100			100		63								
JAB06/08030	6	8	30	10	5	40	30	N/A	55	45	100	10	25
JAB06/08050(G)*			50		20			5					
JAB06/08075(G)*			75		45			30					
JAB06/08100(G)*			100		70			55					
JAB06/08130			130		100			85					
JAB06/08150			150		120			105					
HEXAGON HEAD													
JAB08/10060(G)*	8	10	60	12	20	55	40	N/A	75	60	120	15	40
JAB08/10075			75		35			15					
JAB08/10100(G)*			100		60			40					
JAB08/10130			130		90			70					
JAB08/10150(G)*			150		110			90					



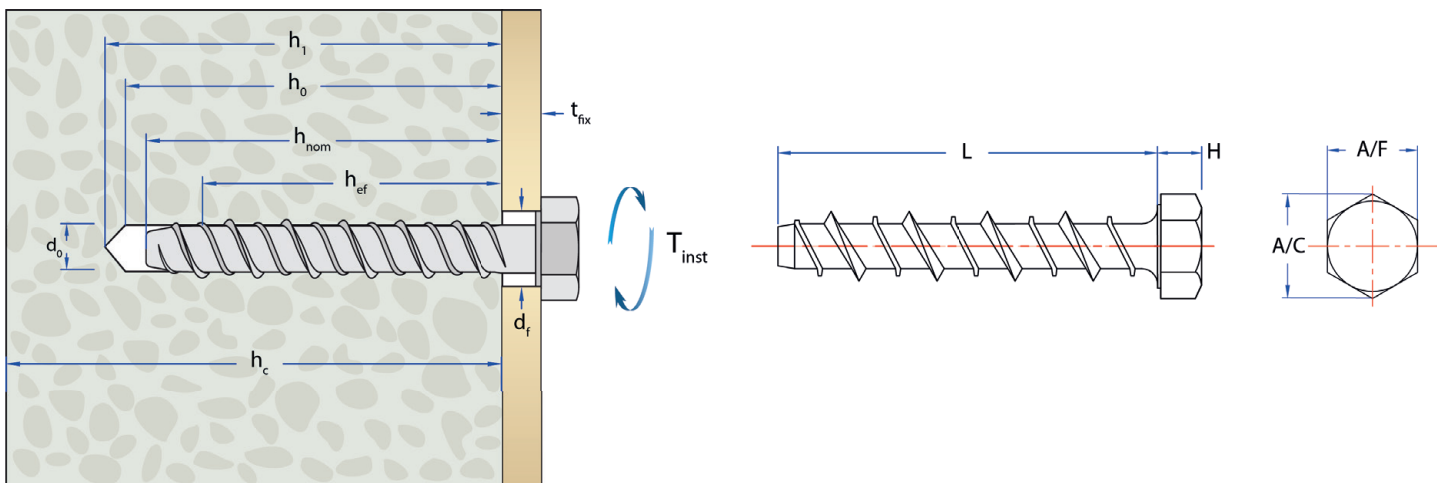


RANGE DATA

Part Number	Drill Hole Diameter (d_o)	Thread Diameter (d_{nom})	Anchor Length (L)	Fixture Clearance Hole (d_f)	Shallow Embedment			Deep Embedment			Min Structure Thickness (h_c)	Width Across Flats (A/F)	Tightening Torque (T_{inst})
					Max Fixture Thickness (t_{fx})	Min Hole Depth (h_1)	Embedment Depth (h_{nom})	Max Fixture Thickness (t_{fx})	Min Hole Depth (h_1)	Embedment Depth (h_{nom})			
					mm	mm	mm	mm	mm	mm			
HEXAGON HEAD													
JAB10/12060(G)*	10	12	60	14	10	70	50	N/A	95	75	125	17	60
JAB10/12075			75		25			N/A					
JAB10/12100(G)*			100		50			25					
JAB10/12130			130		80			55					
JAB10/12150(G)*			150		100			75					
JAB12/14075	12	14	75	16	15	85	60	N/A	115	90	140	19	80
JAB12/14100(G)*			100		40			10					
JAB12/14130			130		70			40					
JAB12/14150(G)*			150		90			60					
JAB12/14200(G)*			200		140			110					
JAB14/16075	14	16	75	18	5	100	70	N/A	125	95	170	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	80	N/A	145	115	190	27	100
JAB16/18150**			150		70			35					
JAB16/18200**			200		120			85					

* The Mechanical Galvanised (minimum 40µm) version is available.

** Mechanical Galvanised minimum 40µm.



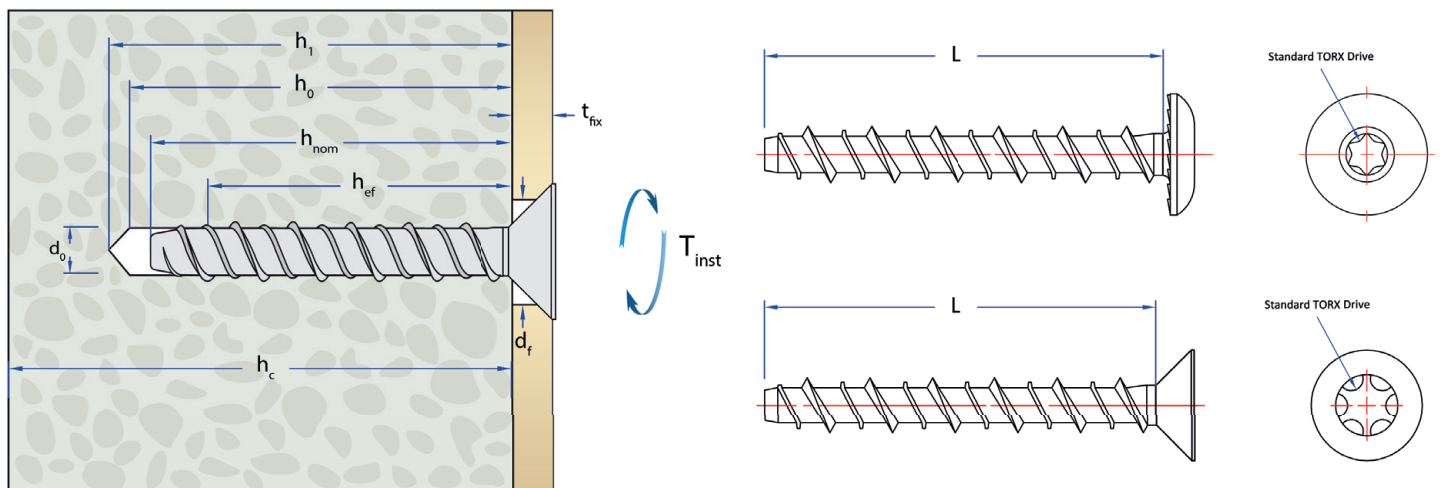
For variations in structure thickness, reduced spacing and edge calculations download the free **Anchor Calculation Program** from www.jcpfixings.co.uk





RANGE DATA

Part Number	Drill Hole Diameter (d_o)	Thread Diameter (d_{nom})	Anchor Length (L)	Fixture Clearance Hole (d_f)	Shallow Embedment			Deep Embedment			Min Structure Thickness (h_c)	Driver Size	Tightening Torque (T_{inst})
					Max Fixture Thickness (t_{fix})	Min Hole Depth (h_1)	Embedment Depth (h_{nom})	Max Fixture Thickness (t_{fix})	Min Hole Depth (h_1)	Embedment Depth (h_{nom})			
					mm	mm	mm	mm	mm	mm			
PAN HEAD													
JAB05/06050PH	5	6	50	8	25	35	25	13	50	37	100	Torx Drive T25	15
JAB05/06075PH			75		38								
JAB05/06100PH			100		63								
JAB06/08030PH	6	8	30	10	5	40	30	N/A	55	45	100	Torx Drive T30	25
JAB06/08050PH			50		20			40					
JAB06/08075PH			75		45			30					
JAB06/08100PH			100		70			55					
COUNTERSUNK													
JAB05/06030CS	5	6	30	8	5	35	25	N/A	50	37	100	Torx Drive T25	15
JAB05/06050CS			50		25			13					
JAB05/06075CS			75		50			38					
JAB05/06100CS			100		75			63					
JAB06/08030CS	6	8	30	10	5	40	30	N/A	55	45	100	Torx Drive T30	25
JAB06/08050CS			50		20			5					
JAB06/08075CS			75		45			30					
JAB06/08100CS			100		70			55					
JAB06/08130CS			130		100			85					
JAB06/08150CS			150		120			105					
JAB08/10060CS	8	10	60	12	20	55	40	N/A	75	60	120	Torx Drive T45	40
JAB08/10075CS			75		35			15					
JAB08/10100CS			100		60			40					
JAB10/12060CS	10	12	60	14	10	70	50	N/A	95	75	125	Torx Drive T50	60
JAB10/12075CS			75		25			N/A					
JAB10/12100CS			100		50			25					





NON-CRACKED CONCRETE - SHALLOW EMBEDMENT

Performance Data (C20/25 non-cracked concrete)												
Drill Diam (d _v)	Overall Embedment Depth (h _{nom})	Minimum Concrete Thickness (h _{min})	Characteristic Resistance		Design Resistance		Approved Resistance		Design Spacing (s)		Design Edge Distance (c)	
			Tensile (N _{Rk})	Shear (V _{Rk})	Tensile (N _{Rd})	Shear (V _{Rd})	Tensile(N _{Ra})	Shear (V _{Ra})	Tensile	Shear	Tensile	Shear
mm	mm	mm	kN	kN	kN	kN	kN	kN	mm	mm	mm	mm
5	25	100	3.1	3.2	1.7	2.0	1.2	1.4	50	50	30	40
6	30	100	3.9	3.8	2.1	2.5	1.5	1.7	60	60	40	40
8	40	100	6.3	6.3	3.4	4.2	2.4	3.0	70	80	50	50
10	50	100	9.3	9.1	5.0	6.0	3.5	4.2	100	100	60	70
12	60	100	12.5	12.7	6.9	8.4	4.9	6.0	120	120	70	90
14	70	100	15.3	15.2	8.4	10.3	6.0	7.3	130	140	80	110
16	80	105	19.0	18.9	10.3	12.4	7.3	8.8	160	160	110	120

NON-CRACKED CONCRETE - DEEP EMBEDMENT

Performance Data (C20/25 non-cracked concrete)												
Drill Diam (d _v)	Overall Embedment Depth (h _{nom})	Minimum Concrete Thickness (h _{min})	Characteristic Resistance		Design Resistance		Approved Resistance		Design Spacing (s)		Design Edge Distance (c)	
			Tensile (N _{Rk})	Shear (V _{Rk})	Tensile (N _{Rd})	Shear (V _{Rd})	Tensile(N _{Ra})	Shear (V _{Ra})	Tensile	Shear	Tensile	Shear
mm	mm	mm	kN	kN	kN	kN	kN	kN	mm	mm	mm	mm
5	37	100	5.0	6.6	2.7	4.4	1.9	3.1	40	80	30	60
6	45	100	7.5	8.7	4.1	5.6	2.9	4.0	70	90	40	70
8	60	120	10.0	13.7	5.5	9.1	3.9	6.5	70	130	50	90
10	75	125	15.0	20.0	8.3	13.1	5.9	9.3	90	160	60	120
12	90	140	19.0	40.5	10.5	32.3	7.5	23.0	90	160	70	300
14	95	170	22.0	54.1	12.2	35.7	8.7	25.5	130	200	80	300
16	115	190	34.0	74.9	18.8	49.9	13.4	35.6	200	250	110	390

SUPPLEMENTARY DATA

Influence Of Concrete Strength (Non-cracked Concrete)					
Concrete strength		C20/25	C30/37	C40/50	C50/60
Cylinder	N/mm ²	20	30	40	50
Cube	N/mm ²	25	37	50	60
Factor	M8, M10, M12	1.0	1.17	1.32	1.42
	M14, M16	1.0	1.22	1.41	1.55

Important Note:
When using concrete factors ensure that loads do not exceed Steel Design Resistance.



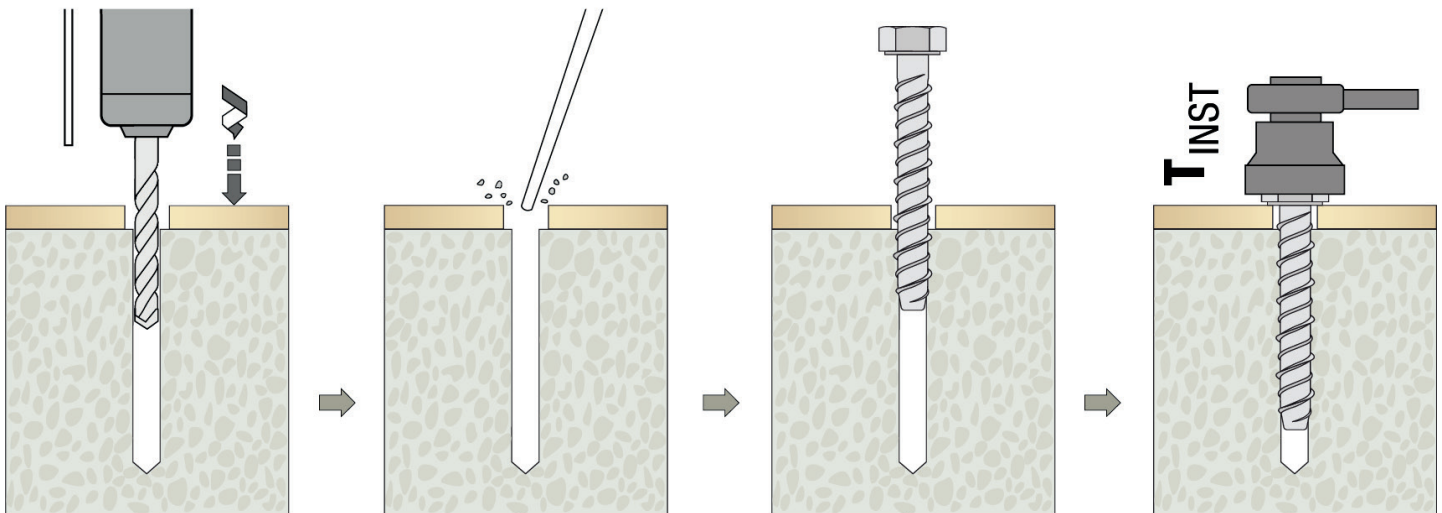


Steel Failure						
Drill Diam (d _v)	Tensile Resistance			Shear Resistance		
	Characteristic Resistance (N _{Rk,s})	Design Resistance (N _{Rd,s})*	Approved Resistance (N _{Ra,s})	Characteristic Resistance (V _{Rk,s})	Design Resistance (V _{Rd,s})**	Approved Resistance (V _{Ra,s})
mm	kN	kN	kN	kN	kN	kN
8	44.2	31.6	22.6	28.5	19.0	13.6
10	70.1	50.1	35.8	46.4	30.9	22.1
12	101.2	72.3	51.6	57.2	38.1	27.2
14	140.0	100.0	71.4	80.4	53.6	38.3
16	183.9	131.4	93.8	84.4	56.3	40.2

* A partial safety factor (γ_{MS}) equal to 1.4 is included.

** A partial safety factor (γ_{MS}) equal to 1.5 is included.

INSTALLATION INSTRUCTIONS



-Position fixture and drill correct diameter hole to corresponding depth by using the rotary hammer drilling mode

-Clean hole by blowing to remove drilling debris and dust

-Insert anchor through fixture into concrete using suitable impact wrench and stop before the anchor touches the fixture

-Finish by tightening with torque wrench to recommended torque

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