ENGLISH

Datasheet

Hexagon Head Ankerbolt, Steel, Zinc Plated & Clear Passivated

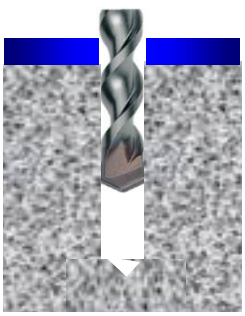
Features

The Hexagon Head Ankerbolt is a self tapping anchor for use in a variety of base materials such as concrete, brick, stone & concrete blocks. The self tapping action provides a positive anchorage with no expansion forces. Made from high grade steel with a zinc plated finish for corrosion resistance. It has a quick and simple installation.

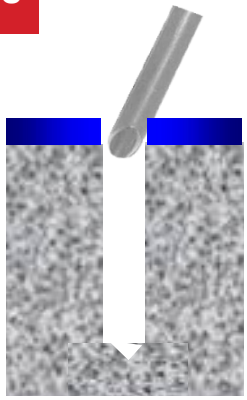
Range Data

					Shallow Embedment		Deep Embedment			
RS Stock No	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		Nm
5266592	8	10	60	12	20	55	N/A	75	15	40
5266609			75		35		15			
5266615			100		60		40			
1743313			130		90		70			
1743314			150		110		90			
1743315	10	12	60	14	10	70	N/A	95	17	60
5266221			75		25		N/A			
5266637			100		50		25			
1743316			130		80		55			
1743317			150		100		75			
5266643	12	14	75	16	15	85	N/A	115	19	80
5266659			100		40		10			

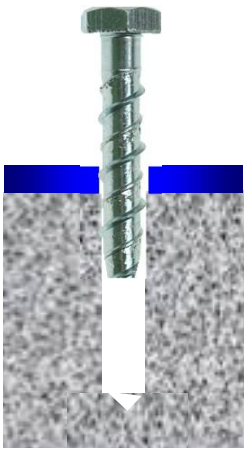
Installation Instructions



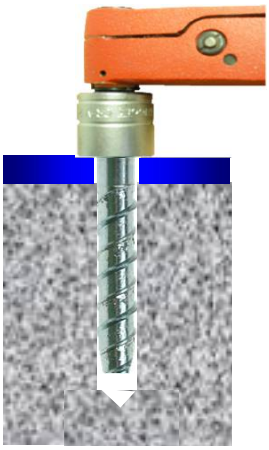
Drill correct diameter hole to correct depth



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

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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*
8	40	100	6.3	6.4	3.4	4.3	2.4	3.0	70	50	55
10	50	100	9.1	8.9	4.9	5.9	3.5	4.2	95	65	65
12	60	100	12.5	12.5	6.9	6.9	4.9	4.9	120	80	70

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*
8	60	100	9.8	13.7	5.4	9.1	3.8	6.5	55	55	90
10	75	110	15.0	20.0	8.3	13.1	5.9	9.3	85	75	130
12	90	130	19.8	40.0	10.9	27.1	7.8	19.3	130	90	255

* Shear towards a free edge
Shear loads towards a free edge are for single anchors where spacing ≥ 3 x Edge Distance

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