

Datasheet

ENGLISH

Hexagon Head Ankerbolt, Steel, Zinc Plated & Clear Passivated



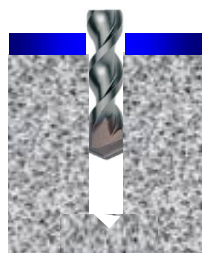
Features

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.

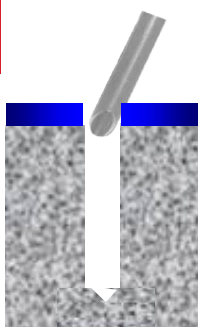
Range Data

RS Stock No	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		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			
1776891			130		70		40			
1776894			150		90		60			
1776920			200		140		110			
1776919	14	16	100	18	30	100	5	125	24	90
1776918			150		80		55			

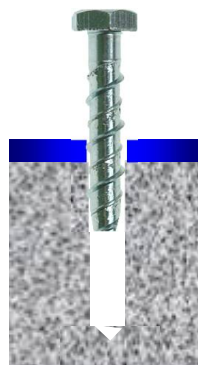
Installation Instructions



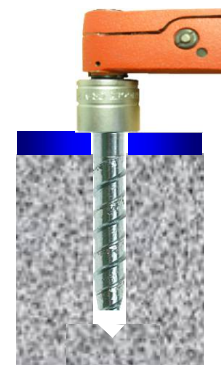
Drill correct diameter hole to correct depth



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	
			kN		kN		kN			mm	
mm	mm	mm	Tensile	Shear	Tensile	Shear	Tensile	Shear	mm	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	
			kN		kN		kN			mm	
mm	mm	mm	Tensile	Shear	Tensile	Shear	Tensile	Shear	mm	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 $\geq 3 \times$ Edge Distance

Influence of concrete strength

Concrete Strength		8,10 & 12mm			14 & 16mm		
		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