

# Datasheet

## Hexagon Flange Head Ankerbolt, Steel, Zinc Plated & Clear Passivated



### Features

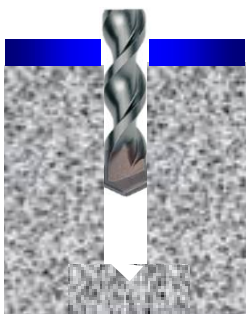
The Hexagon Flange Head Ankerbolt is a self tapping anchor for use in a variety of base materials such as concrete, brick, stone & concrete blocks. The self tapping action provides a positive anchorage with no expansion forces. Made from high grade steel with a zinc plated finish for corrosion resistance.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

### Range Data

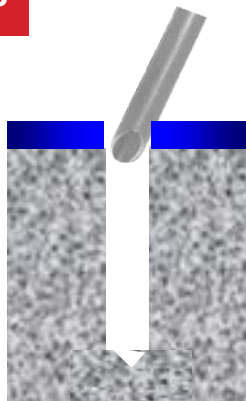
RS Stock No	Drill Diam.	Thread Diam.	Anchor Length	Fixture Clearance Hole	Shallow Embedment		Deep Embedment		Head A/F	Tightening Torque
					Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth		
	mm	mm	mm	mm	mm	mm	mm	mm		Nm
<b>1743307</b>	5	6	50	8	25	35	13	50	8	15
<b>1743308</b>			75		50		38			
<b>1743309*</b>	6	8	30	10	0 (5)	40 (35)	N/A	55	10	25
<b>5266570</b>			50		20		5			
<b>5266586</b>			75		45		30			
<b>1743310</b>			100		70		55			
<b>1743311</b>			130		100		85			
<b>1743312</b>			150		120		105			

\* only suitable for non-structural applications.  
 Figures in brackets are for reduced embedment in non-load bearing applications.

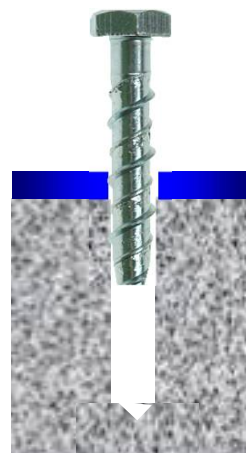
### Installation Instructions



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



ENGLISH

## 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	3.1	3.1	1.7	2.0	1.2	1.4	45	30	35
6	30	100	3.9	3.8	2.1	2.5	1.5	1.8	55	40	50

## 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	4.1	6.5	2.2	4.3	1.6	3.0	30	30	55
6	45	100	5.6	9.5	3.1	6.3	2.2	4.5	35	35	65

\* 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 <sup>2</sup>	30	40	50	20	40	50
Cube	N/mm <sup>2</sup>	37	50	60	25	50	60
Factor		1.17	1.32	1.42	1.22	1.41	1.55