

Datasheet

Countersunk Head Ankerbolt, Steel, Zinc Plated & Clear Passivated

Features

The Countersunk 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 and the countersunk head gives a flat surface.

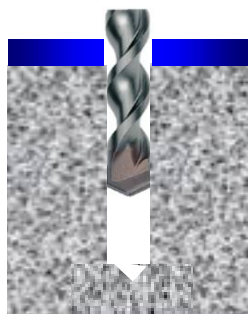


Range Data

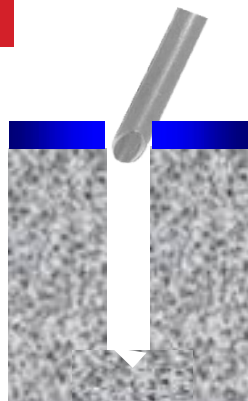
RS Stock No	Drill Diam.	Thread Diam.	Anchor Length	Fixture Clearance Hole	Shallow Embedment		Deep Embedment		Torx Drive	Tightening Torque	Head Diameter
					Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth			
	mm	mm	mm	mm	mm	mm	mm	mm		Nm	
9086725	6	8	75	10	45	40 (35)	30	55	T30	25	12.5
9086729			100		70		55				
9086738			130		100		85				
9086731	8	10	60	12	20	55	N/A	75	T45	40	17.5
9086735			75		35		15				
9086744			100		60		40				
9086747	10	12	60	14	10	70	N/A	95	T50	60	22
9086741			75		25		N/A				
9086750			100		50		25				

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

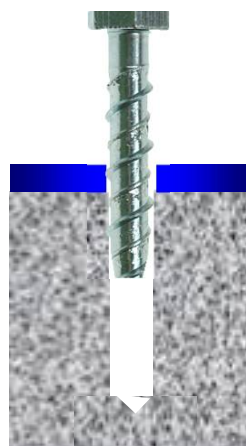
Installation Instructions



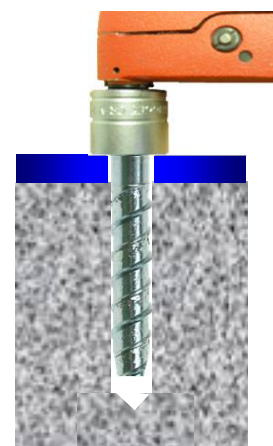
Drill correct diameter hole to correct depth



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



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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*
6	30	100	3.9	3.8	2.1	2.5	1.5	1.8	55	40	50
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

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*
6	45	100	5.6	9.5	3.1	6.3	2.2	4.5	35	35	65
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

* 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