

FEATURES

- Through bolts made of carbon steel, zinc plated
- Hot dipped galvanised min 42µm - bonds with the steel to provide a strong protective layer
- Available in a range sizes

RS PRO Carbon Steel Anchor Bolt M10, fixing hole diameter 10mm, length 100mm

RS Stock No.: 908-6690



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Masonry Plugs, Anchors & Fixings



Product Description

RS PRO range of galvanised through bolts. The through bolt is a torque controlled anchor suitable for use in concrete over C20/25

Through bolt range includes the following sizes:

908-6696 - M10x80 mm

908-6690 - M10x100 mm

908-6700 - M10x125 mm

908-6703 - M12x85 mm

908-6707 - M12x100 mm

908-6716 - M12x115 mm

908-6719 - M12x145 mm

908-6713 - M16x110 mm

908-6722 - M16x125 mm

General Specifications

Thread Size	M10
Туре	Galvanised Through Bolt
Material	Carbon Steel
Application	Outdoor seating; Handrails; Barriers; Warehouse racking; Facade systems
Grade	316 A4



Mechanical Specifications

Length	100mm
Fixing Hole Diameter	10mm
Maximum Fixing Thickness	30mm
Eye Inside Diameter	10; 12; 17mm
Hook Inside Diameter	8; 12; 16mm
Internal Thread Length	13mm
Minimum Hole Depth	70mm
Thread Length	10mm
Thread Diameter	10mm
Anchor Length	80mm
Maximum Fixture Thickness	10mm
Fixture Clearance Hole	12mm
Embed Depth	60mm
Structure Thickness	105mm
Installation Torque	30Nm
Maximum Load	77kg
Edge Clearance	50mm
Centre-to-Centre Distance	100mm
Nominal Tensile Strength	880N/mm ²
Yield Strength	755N/mm ²
Stressed Cross-Section	39.6mm ²
Moment Of Resistance	35 ³
Characteristics Bending Resistance	37Nm

Operation Environment Specifications

Minimum Temperature Resistance	-40°C
Maximum Temperature Resistance	80°C

Approvals

Compliance/Certifications	CE / UR / cUR



Range Data

RS Stock No	Thread Diam.	Anchor Length	Hole Diam	Max Fixture Thickness	Fixture Clearance Hole	Embed Depth	Min Hole Depth	Structure Thickness	Installation Torque
	mm	mm	mm	mm	mm	mm	mm	mm	Nm
9086696	10	80		10	12	60	70	105	
9086690		100	10	30 50					30
9086700		125							
9086703		85	ĵ.	10	14	60	70	100	
9086707	1	100		5		80	90	140	50
9086716	12	115	12	20					
9086719	1	145		50					
9086713	0/010/0	110		15	5 2230 3	75 100	85	150	3 50959595
9086722	16	130	16	10	18		110		100
1777064		150		30					

Installation Instructions



Position fixture and drill correct diameter hole to correct depth



Clean hole by brushing and blowing to remove all dust and drillingdebris



Insert assembled anchor through fixture into concrete



Tighten with torque wrench to InstallationTorque



Standard Embedment

	Performance Data (C20/25 non-cracked Concrete)													
Thread Diam.	Minimum Structure Thickness	Characteristic Resistance		Design Resistance		Recommended Resistance		Design Spacing	Design Edge Distance		Tight Torque			
mm	mm	k	N	kN		kN		mm	mm		Nm			
		Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear*				
8	100	13.5	11.0	7.4	8.7	5.2	6.2	85	70	95	15			
10	110	18.3	18.9	10.1	12.6	7.2	9.0	145	100	125	30			
12	140	27.4	25.0	15.2	19.9	10.8	14.2	240	130	175	50			
16	180	41.6	44.0	23.1	33.0	16.5	23.5	265	180	250	100			
20	215	55.1	69.0	30.6	55.1	22.6	39.3	320	210	380	200			

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

Reduced Embedment

	Performance Data (C20/25 non-cracked Concrete)														
Thread Diam.	Minimum Structure Thickness	Charac Resist		Design Resistance		Recommended Resistance		Design Spacing	Design Edge Distance		Tight Torque				
mm	mm	k	N	kN		kN		mm	mm		Nm				
		Tensile	Shear	Tensile	Shear	Tensile Shear			Tensile	Shear*					
8	100	7.5	7.4	4.1	4.9	3.0	3.5	85	60	60	15				
10	100	9.1	9.1	5.0	6.0	3.6	4.2	95	65	65	30				
12	110	17.9	25.0	9.9	19.9	7.0	14.2	150	100	210	50				
16	130	25.3	44.0	14.0	33.0	10.0	23.5	190	125	315	100				

^{*} Reduce embedment only for shorter anchors as indicated in range table. Shear loads towards a free edge are for single anchors where spacing \geq 3 x Edge Distance