

#### **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 M16, fixing hole diameter 16mm, length 110mm

RS Stock No.: 908-6713



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.



#### **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	M16
Туре	Galvanised Through Bolt
Material	Carbon Steel
Application	Outdoor seating; Handrails; Barriers; Warehouse racking; Facade systems
Grade	316 A4



# **Mechanical Specifications**

Length	110mm
Fixing Hole Diameter	16mm
Maximum Fixing Thickness	15mm
Eye Inside Diameter	10; 12; 17mm
Hook Inside Diameter	8; 12; 16mm
Internal Thread Length	13mm
Minimum Hole Depth	85mm
Thread Length	10mm
Thread Diameter	10mm
Anchor Length	80mm
Maximum Fixture Thickness	10mm
Fixture Clearance Hole	14mm
Embed Depth	75mm
Structure Thickness	150mm
Installation Torque	100Nm
Maximum Load	77kg
Edge Clearance	50mm
Centre-to-Centre Distance	100mm
Nominal Tensile Strength	880N/mm <sup>2</sup>
Yield Strength	755N/mm <sup>2</sup>
Stressed Cross-Section	39.6mm <sup>2</sup>
Moment Of Resistance	35 <sup>3</sup>
Characteristics Bending Resistance	37Nm

## **Operation Environment Specifications**

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

### **Approvals**

Compliance/Certifications	CE / UR / cUR







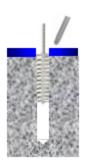
# Range Data

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		80	10	10	12	60	70	105	30
9086690	10	100		30					
9086700		125		50					
9086703		85	12	10	14	60	70	100	
9086707	12	100		5		80	90	140	50
9086716	12	115		20					
9086719		145		50					
9086713	16	110		15	18	75	85	150	
9086722		130	16	10		100	110	180	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	k	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  $\geq 3 \times \text{Edge Distance}$ 

## **Reduced Embedment**

	Performance Data (C20/25 non-cracked Concrete)													
Thread Diam.	Minimum Structure Thickness		Characteristic Resistance		Design Resistance		nended tance	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			

<sup>\*</sup> 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