

FEATURES

- Through bolts made of carbon steel
- Zinc plated and yellow passivated min 5µm - Yellow chromate prevents the zinc from corroding and increases the overall protection of the finish
- Available in a range of sizes

RS PRO Carbon Steel Anchor Bolt M12, fixing hole diameter 12mm, length 80mm

RS Stock No.: 908-6977



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 zinc plated through bolts which are torque controlled anchors suitable for use in concrete over C20/25.

Through bolt range includes the following sizes:

- [908-6949](#) - M6x55 mm
- [908-6943](#) - M8x50 mm
- [908-6952](#) - M8x65 mm
- [908-6959](#) - M8x100 mm
- [908-6968](#) - M8x130 mm
- [908-6961](#) - M10x65 mm
- [908-6965](#) - M10x75 mm
- [908-6974](#) - M10x120 mm
- [908-6977](#) - M12x80 mm
- [908-6971](#) - M12x100 mm
- [908-6980](#) - M12x120 mm
- [908-6983](#) - M12x140 mm
- [908-6987](#) - M16x150 mm
- [908-6996](#) - M16x175 mm
- [908-6999](#) - M16x220 mm

General Specifications

Thread Size	M12
Type	Through Bolt Anchor
Material	Carbon Steel
Application	Outdoor seating; Handrails; Barriers; Warehouse racking; Facade systems; Horticulture, Displays, General home DIY and Commercial applications
Grade	316 A4
Standard Colour	Yellow
Finish	Zinc Plated and Yellow Passivated min 5µm

Mechanical Specifications

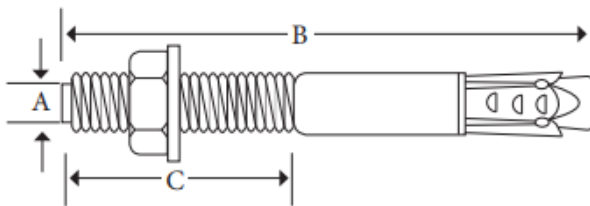
Length	80mm
Fixing Hole Diameter	12mm
Maximum Fixing Thickness	5mm
Eye Inside Diameter	10mm
Hook Inside Diameter	8; 12; 16mm
Internal Thread Length	13mm
Minimum Hole Depth	65mm
Thread Length	30mm
Thread Diameter	6mm
Anchor Length	80mm
Maximum Fixture Thickness	25mm
Fixture Clearance Hole	14mm
Embed Depth	75mm
Structure Thickness	150mm
Installation Torque	34Nm
Maximum Load	140kg
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
Rec. Tensile Resistance	7kN
Rec. Shear Resistance	8.4kN

Operation Environment Specifications

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

Approvals

Compliance/Certifications	CE / UR / cUR
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Part Number	Anchor/ Hole Size	Anchor Length	Thread Length	Maximum Fixture Thickness	Minimum Hole Depth	Rec. Tensile Resistance	Rec. Shear Resistance	Tightening Torque
	A	B	C					
	mm	mm	mm	mm	mm	kN	kN	Nm
9086949	6	55	30	15	34	2.2	2.4	6
9086943	8	50	20	5	40	2.9	3.5	10
9086952	8	65	35	20	40	2.9	3.5	10
9086955	8	80	50	35	40	2.9	3.5	10
9086959	8	100	70	55	40	2.9	3.5	10
9086968	8	130	85	85	40	2.9	3.5	10
9086961	10	65	25	8	50	4.4	5.4	28
9086965	10	75	35	18	50	4.4	5.4	28
9086974	10	120	80	63	50	4.4	5.4	28
9086977	12	80	30	5	65	7.0	8.4	34
9086971	12	100	50	25	65	7.0	8.4	34
9086980	12	120	70	45	65	7.0	8.4	34
9086983	12	140	90	65	65	7.0	8.4	34
9086987	16	150	90	55	85	9.4	14.3	85
9086996	16	175	90	80	85	9.4	14.3	85
9086999	16	220	90	125	85	9.4	14.3	85