

## 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 120mm

RS Stock No.: 908-6980



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

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

## Mechanical Specifications

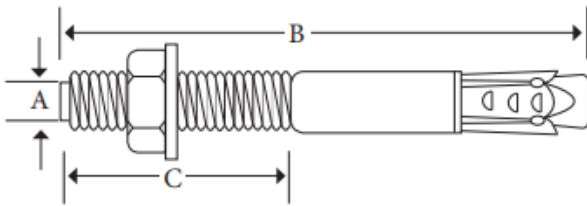
<b>Length</b>	120mm
<b>Fixing Hole Diameter</b>	12mm
<b>Maximum Fixing Thickness</b>	45mm
<b>Eye Inside Diameter</b>	10mm
<b>Hook Inside Diameter</b>	8; 12; 16mm
<b>Internal Thread Length</b>	13mm
<b>Minimum Hole Depth</b>	65mm
<b>Thread Length</b>	70mm
<b>Thread Diameter</b>	6mm
<b>Anchor Length</b>	80mm
<b>Maximum Fixture Thickness</b>	25mm
<b>Fixture Clearance Hole</b>	14mm
<b>Embed Depth</b>	75mm
<b>Structure Thickness</b>	150mm
<b>Installation Torque</b>	34Nm
<b>Maximum Load</b>	140kg
<b>Edge Clearance</b>	50mm
<b>Centre-to-Centre Distance</b>	100mm
<b>Nominal Tensile Strength</b>	880N/mm <sup>2</sup>
<b>Yield Strength</b>	755N/mm <sup>2</sup>
<b>Stressed Cross-Section</b>	39.6mm <sup>2</sup>
<b>Moment Of Resistance</b>	35 <sup>3</sup>
<b>Characteristics Bending Resistance</b>	37Nm
<b>Rec. Tensile Resistance</b>	7kN
<b>Rec. Shear Resistance</b>	8.4kN

## Operation Environment Specifications

<b>Minimum Temperature Resistance</b>	-40°C
<b>Maximum Temperature Resistance</b>	80°C

## Approvals

<b>Compliance/Certifications</b>	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