The RSR Product Catalogue 2008



















The 2008 RSR Fixings & Tools Catalogue is designed to answer some of the most common questions we are asked, such as availability and dimensional data, and to showcase some of the 22,000 product lines available from us at RSR Fasteners.

We would like to thank all contributors of this catalogue for the information provided.

Whilst every effort has been made to ensure all technical data is correct please confirm specifications before designing or specifying products.









Index

Adhesives	83	Galvafroid Paint	100
Alpha Wedges	59	Gaffer Tape	96
Auger Bits	105	Glass Cleaner	50
Backing Plates	58 - 63	Gloves	97
Beam Clamp Spacers	57	Goggles	97
Beam Clamps	51 - 57	Grating Clips	58
Blacksmith Drills	105	Grinding Discs	108
B-Line Clips	70 - 73	Hacksaw Blades	96
Bolts	9 - 10	Half Nuts	30 - 31
Bosch Power Tools	91 - 93	Hammerfix	61
Bow Nuts	82	Hand Cleaner	100
Box Bolts	51	Heaters	85
Bracketry	66 - 68	Helmets Safety	97
Brooms	97	Hexagon Bolts & Setscrews	9 - 10
Cable Ties & Bases	94	High Strength Friction Grip	11
Capscrews	25	Holding Down Bolts	12
Caulk	47	Holesaws	110
Chalk Lines	97	Holobolts	51
Channel	65	Hook Bolts	81
Channel Brackets	66 - 69	Hook Bolts (Rawlbolt Type)	39
Channel Nuts	65	Horse Shoe Packers	95
Chemical Anchors	35, 44 - 45	HSS Drills	102
Coachbolts	13	Jobber Drills	102
Coachscrews	13	Jointing Compound	111
Cobalt Drills	103	Kwickstrut	66
Cone Cutters	110	Ladders	99
Core Bits	109	Lighting	84
Cutting Discs	108	Lindapter Alpha & Multi Wedge	59
Cutting Fluid	111	Line Marking Paint	100
DeWalt Power Tools	87 - 90	Load Indicating Washers	11
Drill Bits	101 - 105	Location Plates	58
Drywall Screws	20	Lock Nuts	30
Dry Diamond Core Bits	109	Long Series Drills	104
Dry Diamond Cutting Disc	109	Lubricants	111
Dust Masks	97	Machine Screws	15
Electrical Tape	96	Mag Drills	107
Ejot Fixings	19 - 20	Masking Tape	96
Eyebolts (Dynamo)	82	Masonry Drill Bits	101
Expanding Foam	50	Mops	98
Extension Leads	85	Multiwedges	59
Eyebolts (Folded)	81	Munsen Rings	63
Eyebolts (Rawlbolt Type)	39	Non Drill Anchors	36
Fire Foam	50	Nuts (General)	30 - 31
First Aid	97	Padlocks	98
Fischer Plugs	61	Paint Brushes	100
Fischer Zykon Anchor	62	Paint Rollers	100
Flange Clamps	60	Penny Washers	35
Flat Wood Bits	105	Permabond	83
Frame Anchors	61	Phenolic Blocks	64b

Index

Pickaxes	87	Step Drills	110
Pink Grip	83	Studding	14
Pipe Clamps	64 & 64a	Super Glue	83
Pipe Rings	63 - 64	Tallow	111
Pipe Saddles	64a	Tape	96
Plastic Packers	95	Taps (Hand)	111
Podium Steps	99	Teks Screws (Self Drill)	19 - 20
Polythene Sheeting	98	Throughbolts	40 - 41
Power Tools	86 - 93	Thru Hard Washers	11
PPE	97	Toilet Rolls	98
Primers	100	Transformers	84
Ragbolts	12	Turn Buckles	81
Rawlbolts Loose Bolt	38	U-Bolts	80
Rawlbolts Projecting	37	Unistrut	65
Red & Grey Oxide Paint	100	Unistrut Kwikstrut	66
Redi-driva Plasterboard	41	Unistrut Accessories	67 - 69
Resin Systems	44 - 45	Van Vault	85
Rivet Guns	78	Vee Nuts	60
Rivet Nuts	79	Wafer head Self Drillers	20
Rivets	74 - 77	Washers form A & B	32
Rope	98	Washers form C & D	33
Rotabroach Cutters & Tools	106 -107	Washers General	35
Rubble Sacks	97	WD40	111
Safety Equipment	97	Wedge Anchors	36
Safetyplus Anchors	42 - 43	Wedge Anchors (lipped/short)	39
SDS Chisels	101	Wedge Nuts	60
SDS Drill Bits	101	Wheel Barrows	86
SDS Max Bits	101	Wood Blocks	64b
Security Screws	23 - 24	Wood bits	105
Self Drilling Screws	19 - 20	Woodscrews Brass	21
Self Tapping Screws	16 -17	Woodscrews Stainless Steel	21
Setscrews	9 -10	Woodscrews Steel	18
Scaffold Towers	99	Zykon Anchors	62
Shake proof washers	35	Zykon / wonoro	02
Sheer Bolts	24		
Shovels	86		
Silicones & Mastics	46 - 50		
Site Electric's	84 - 85		
Sledge Hammers	86		
Socket Button Screws	27		
Socket Cap screws	25		
Socket Csk Screws	26		
Socket Setscrews	28 - 29		
Spray Paint	100		
Spring Clips	70 - 73		
Spring Nuts	65		
Spring Washers	35		
Sqr Sqr Rnd Hex Bolts	12		
Starrett	110		



QMS Quality Management Systems

Registration Certificate

This document certifies that the quality management systems of

RSR FASTENERS LIMITED

have been assessed and approved by QMS Quality Management Systems to the following quality management systems, standards and guidelines:-

BS EN ISO 9001: 2000

The approved quality management systems apply to the following:-GENERAL ENGINEERS SUPPLIERS

Original Approval: 07 April 1997

Current Certificate: 06 April 2007

Certificate Expiry: 06 April 2017

Certificate Number: GB 1840

ISO 9001
REGISTERED FIRM

On behalf of QMS International plc



This Certificate remains valid while the holder maintains their quality management systems in accordance with the standards and guidelines above, which will be audited by QMS Quality Management Systems

This certificate is the property of QMS International plc and must be returned in the event of cancellation.

A division of OMS



RSR Fasteners Ltd Unit 2, Pasadena Close Hayes, Middlesex UB3 3NQ Tel 0208 756 1818 Fax 0208 756 1819

Credit Application Form

Company Details	
Company Trading Name:	
Registered Office Address:	Delivery Address:
Postcode:	Postcode:
Telephone Number:	Telephone Number:
Fax Number:	Fax Number:
E-mail Address:	Company Registration No:
Website Address:	VAT Registration No:
Accounts Contact:	
Purchasing Contact:	Credit Limit Required:
Please Supply two trade references	
Trade Ref 1:	Trade Ref 2:
Address:	Address:
Postcode:	Postcode:
Telephone Number:	Telephone Number:
Fax Number:	Fax Number:
Credit terms	
Payment is due 30 days from the end of the month of invoice	
rayment is due 30 days from the end of the month of invoice	
Declaration I/We have read and understood the above terms and conditions and the state of the s	he trading terms printed overleaf / attached and I/we hereby
agree and accept the aforementioned terms and conditions.	te trading terms printed overlear / attached and i/we hereby
agree and accept the distributioned terms and conditions.	
Authorised Signature:	Date:
Additionated Orginature.	Date.
Name:	Position:

RSR TERMS AND CONDITIONS

These terms and conditions shall apply to all agreements made between R.S.R Group companies (the Vendor) of the purchaser. Acceptance by the vendor of the Purchaser's order is conditional upon acceptance by the Purchaser of these conditions which override all other terms or conditions inconsistent therewith, whether the same are expressed. implied or otherwise

Any variation of these conditions shall only be binding upon the vendor if specifically agreed by the Vendor in writing. Any stipulation or condition set out in a Purchaser's Order Form or otherwise shall be deemed to be inapplicable if it is inconsistent with the terms herein.

Prices are subject to alteration without notice and goods will be invoiced at the prices ruling at the date of dispatch.

Prices are quoted exclusive of VAT, which will be charged extra in accordance with the rate due to HM Customs and Excise at the appropriate tax point.

Prices are ex works cash. Where credit terms have been expressly agreed, payment is due by the 30th day of the month following that in which the goods are dispatched.

Risk I the goods shall pass to the Purchaser on delivery of the goods to the Purchaser.

Property in the goods shall not pass to the Purchaser but shall remain vested in the Vendor who shall retain the beneficial and legal ownership of goods until all monies due (1)from the Purchaser in respect of this or any other contract shall have been paid.

The Purchaser shall as security for all monies due to the Vendor from the Purchaser hold the Vendor's goods as the Vendor's agent or Bailee.

(2)

- The Purchaser shall be entitled with the Vendor's consent to sell the goods to a third party if done in the ordinary course of the Purchaser's business, and shall hold the gross proceeds of any such resale in trust for the Vendor.
- (4)
- The Purchaser hereby grants to the Vendor the right to enter upon the Purchaser's Premises for the purpose of repossessing the Vendor's goods in the event that the Purchaser fails to make payment of all or any monies due to the Vendor.

 The purchaser agrees that so long as any monies remain due to the Vendor, it will store the Vendor's goods separately from the goods belonging to any other persons so that the Vendor's goods are readily identifiable. (5)

The Vendor will normally make no charge for carriage to a destination within the area served by the Vendors transport. The Vendor will charge for carriage to destinations outside that area, where the Purchaser demands special arrangements. Or where delivery is demanded outside normal working hours.

Where special packaging is necessary, the Vendor will charge for the same at cost. Bags and cartons used by the Vendor for packing are not returned. The Vendor will charge for all pallets and crates used for packing but will credit the sums charged if such pallets and crates are redelivered by the Purchaser at the Purchasers cost within 30 days of the delivery to the Purchaser.

Delivery Dates are estimated only and the time of delivery shall not be the essence of the contract. The Vendor shall not in the event be liable to compensate the Purchaser in damages or otherwise for any non-delivery or late delivery of goods or for any loss consequential or otherwise arising from thereform.

The Vendor shall not be liable to the Purchaser for any claim in respect of or arising from the loss of any consignment unless the Purchaser advises the Vendor of such loss within 14 days after the receipt by the Purchaser of the Vendor's advice of dispatch.

The Vendor shall not be liable to the Purchaser for any claim, in respect of or arising from the partial loss of any consignment, unless the Purchaser advises the Vendor of such loss within 3 days after the delivery of the goods first having endorsed the carrier's receipt, that the goods have been accepted unexamined.

7d
The Purchaser shall inspect the goods immediately on delivery thereof and shall within seven days from such delivery give notice in writing to the vendor of any matter or thing by reason whereof the Purchaser may allege that the goods are not in accordance with the contract. If the Purchaser shall fail to give such notice the said goods shall be deemed to be I all respects in accordance with the contract and the Purchaser shall be deemed to have accepted the goods accordingly and shall be bound to pay the price thereof.

Where any consignment, or part of any consignment is lost or where the Purchaser alleges any goods to be defective, such loss or partial loss or defects shall not form the subject of any claims against the vendor, arising out of any work done by the Purchaser, or of any claims for any loss damage cost or expense arising directly or indirectly from the said alleged defects.

No warranties as to the suitability of the goods for any purpose whatsoever or as to the merchant or as to the merchantable quality of the goods are made or implied. If the Vendor accepts the return of any goods, which it has agreed, are defective, it shall remain a matter for the Vendor's discretion whether to replace the defective goods so far as may be practicalable to the Purchaser for the defective goods. The Vendor will not be liable to the Purchaser for any consequential loss, damage or injury however caused suffered by the Purchaser or any other party arising directly or indirectly from the supply of goods by the Vendor to the Purchaser.

The Purchaser will indemnify the Vendor against any claim whatsoever for damages and cost and against any other loss resulting from the vendor being held liable for any infringement of patent rights, trade marks, copyright or registered designs consequent upon the Vendor's compliance with the Purchaser's express or implied instructions.

The Vendor will not accept cancellation of any goods once production of the goods has been commenced

Where there is a Schedule Order calling for delivery to be made at specified times over a specified period, that shall constitute unqualified authority to the Vendor to manufacture the entire quantity of goods so ordered, and this quantity shall be accepted, in full by the Purchaser during the period specified. Should the Purchaser fail to pay for any part consignment when payment becomes due then the whole outstanding balance of monies due in respect of the total number of goods to be supplied under the contract shall become due for immediate payment.

12 Where the vendor supplies part quantities against any order, the Purchaser shall accept and pay for such quantities.

The Vendor reserves the right to supply 10% more or less than the quantity ordered of any specially manufactured items, and to charge for the quantity supplied.

The Vendor reserves the right to terminate the contract in the event that the Purchaser comes to an arrangement with any of its creditors, or if an Administrator or receiver is appointed, or if winding-up proceedings are initiated.

Every contract to which these conditions apply shall be submitted to the jurisdiction of the English Courts of Law

About RSR

Established as Rowland Nicholls & Co Ltd in 1948 to supply the construction, engineering and maintenance industries with industrial fasteners.

Our original offices and warehouse were based at Lionel Rd, Brentford where we remained for over 50 years.

We became RSR Fasteners Ltd in 1990 to give the company a clearer identity.





In 2001 we relocated to our new warehouse and offices at Hayes, Middlesex.

Based just 2 miles from Heathrow Airport, 1 Mile from Junction 3 of the M4 and 2 miles from the A40 we are ideally located for transport links into London.

Our own drivers are courteous and helpful and ensure your goods are delivered to the correct people.

Our drivers have mobile phones so they can contact sites and arrange deliveries.

We offer a UK next day service via our own transport and TNT, we can also offer a same day courier service.

We can also deliver 6 meter lengths of Unistrut channel.



About RSR

RSR have for many years been major importers of fixings and fasteners.

We source products from the UK, Europe and worldwide.

Over our many years of trading we have established close working relationships with some of the foremost fixings manufacturers.

Every customer has unique requirements and we work with our customers to provide the right procurement procedures to suit their business.





We have been involved in many major projects over the years including T5, Wembley and Emirates Stadiums, Kings Cross, Jubilee Line Extension and the service tunnels in the New Olympic Site.

We can supply your complete project requirements from fixings to site equipment, all from stock.

We have accumulated a great deal of knowledge of fixings and tools. Our staff have collectively over 200 years of experience in the industry.

This gives our customers the advantage of dealing with people who will help and advise on applications and fixings solutions.

We pride ourselves on providing our customers with quality service at competitive prices.

We have established ourselves in a number of different market places giving us a unique range of products.

This diversity of customer base has kept our business very stable over the past 60 years as we are not dependent on any one industry.

Our warehouse holds 22,000 stock lines with a valuation of over £300,000.

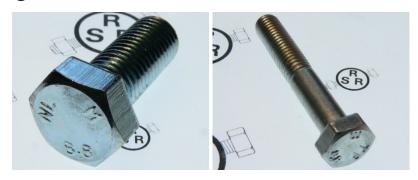


Hexagon Bolts and Setscrews DIN931

Bolts are partially threaded. The length of the thread is determined by the following formula,

Up to 125mm 2 x dia + 6mm 125mm to 200mm 2 x dia + 12mm Over 200mm 2 x dia + 25mm

Setscrews are fully threaded.



Availability chart

	M4	M5	M6	M8	M10	M12	M16	M20	M24	M27	M30	M33	M36
6mm	Sets Only												
8mm	Sets Only	Sets Only											
10mm	Sets Only	Sets Only	Sets Only										
12mm	Sets Only	Sets Only	Sets Only	Sets Only									
16mm	Sets / Bolts	Sets Only	Sets Only	Sets Only	Sets Only								
20mm	Sets / Bolts	Sets / Bolts	Sets Only	Sets Only	Sets Only	Sets Only							
25mm	Sets / Bolts	Sets / Bolts	Sets / Bolts	Sets Only	Sets Only	Sets Only	Sets Only						
30mm	Sets / Bolts	Sets / Bolts	Sets / Bolts	Sets / Bolts	Sets Only	Sets Only	Sets Only	Sets Only					
35mm	Sets / Bolts	Sets Only	Sets Only	Sets Only									
40mm	Sets / Bolts	Sets Only	Sets Only	Sets Only									
45mm	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only									
50mm	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only	Sets Only								
55mm	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only	Sets Only								
60mm	Special	Sets / Bolts	Sets Only	Sets Only									
65mm		Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only	Sets Only							
70mm		Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only							
75mm		Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only	Sets Only						
80mm		Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only	Sets Only					
90mm		Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only						
100mm		Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only	Sets Only					
110mm			Special	Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only					
120mm			Special	Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets Only				
130mm			Special	Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts				
140mm				Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets / Bolts	Sets / Bolts
150mm				Special	Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Sets / Bolts	Sets / Bolts
160mm					Special	Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special
180mm					Special	Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Special
200mm						Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Bolts Sets Special	Special	Special
220mm							Special	Special	Bolts Sets Special	Bolts Sets Special	Special	Special	Special
250mm							Special	Special	Bolts Sets Special	Bolts Sets Special	Special	Special	Special

Hexagon Bolts and Setscrews

Hexagon Bolt & Setscrew Head Dimensions

Thread Dia	Pitch	Width Across Flats	Width Across Flats	Height of Head	Height of Head
	Coarse	Max	Min	Max	Min
M6	1	10.00	9.64	4.24	3.76
M8	1.25	13.00	12.57	5.74	5.26
M10	1.5	17.00	16.57	7.29	6.71
M12	1.75	19.00	18.48	8.29	7.71
M16	2	24.00	23.16	10.29	9.71
M20	2.5	30.00	29.16	13.35	12.65
M22	2.5	32.00	31.00	14.35	13.65
M24	3	36.00	35.00	15.35	14.62
M27	3	41.00	40.00	17.35	16.65
M30	3.5	46.00	45.00	19.42	18.58
M33	3.5	50.00	49.00	21.42	20.58
M36	4	55.00	53.80	23.42	22.58
M39	4	60.00	58.80	25.42	24.58
M42	4.5	65.00	63.80	26.42	25.58
M45	4.5	70.00	68.8	28.42	27.58
M48	5	75.00	73.80	30.42	29.58
M52	5	80.00	78.80	33.50	32.50
M56	5.5	85.00	83.60	35.50	34.50

All dimensions in millimetres

Materials and Finishes

Materials;	High Tensile Grade 8.8 sets	(RSR CODE 0132)
	High Tensile Grade 8 8 Bolts	(RSR CODE 0131)

(RSR CODE 0138) Mild Steel Grade 4.6 Sets Mild Steel Grade 4.6 Bolts (RSR CODE 0011) Stainless Steel A2/A4 grades Sets (RSR CODE 0134) Stainless Steel A2/A4 grades Bolts (RSR CODE 0133) **Brass Setscrews** (RSR CODE 0136) **Brass Bolts** (RSR CODE 0135) Nylon Setscrews (RSR CODE 0137) High Tensile Grade 10.9 (Special Order Only)

Finishes High Tensile & Mild Steel available in Bright Zinc Plated, Galvanised, Sheridised, Zinc &

Yellow passivated.

Threads Metric, Metric Fine, BSW, BSF, UNC, UNF, BA

High Strength Friction Grip BS4395: Part 1:1969

The term 'high strength friction grip bolts' relates to bolts of high tensile steel, used in conjunction with high tensile steel nuts and quenched and tempered steel washers, which are tightened to a predetermined shank tension in order that the clamping force thus provided will transfer loads in the connected members by friction between the parts and not by shear in or bearing on the bolts or piles of connected members. Bolts shall be heat-treated under uniform conditions. They shall be hardened by quenching in oil or water and shall then be tempered.

Bolts shall be identified as general grade high strength friction grip bolts by being marked with three radial lines 120 deg apart. They shall also bear the manufacturers identification mark and in addition shall be marked 'ISOM' or 'M' to signify ISO metric thread.

Washers. Flat round for use with the high strength grip bolts shall be identified by the provision of three nibs and an indented letter 'M'



HSFG Bolt Dimensions

Thread Dia	Pitch	Width Across Flats	Width Across Flats	Thickness of Head	Thickness of Head
	Coarse	Max	Min	Max	Min
M16	2	27.00	26.16	10.45	9.55
M20	2.5	32.00	31.00	13.90	12.10
M22	2.5	36.00	35.00	14.90	13.10
M24	3	41.00	40.00	15.90	14.10
M27	3	46.00	45.00	17.90	16.10
M30	3.5	50.00	49.00	20.05	17.95
M36	4	60.00	58.80	24.05	21.95

Thru Hardened Washer

Diameter of	Inside Dia B	Inside Dia B	Outside Dia C	Outside Dia C	Thickness A	Thickness A
Thread	Max	Min	Max	Min	Max	Min
M16	17.8	17.4	37	36	3.4	3.0
M20	21.5	21.1	44	43	3.7	3.3
M22	23.4	23.0	50	48.5	4.2	3.8
M24	26.4	26.0	56	54.5	4.2	3.8
M27	29.4	29.0	60	58.5	4.2	3.8
M30	32.8	32.4	66	64.5	4.2	3.8
M36	38.8	38.4	85	83.5	4.6	4.2



Load Indicating Washer

The load indicating washer is a precise fool-proof and economic device that ensures the automatic tightening of high strength friction grip bolts to the required shank tension.

It is merely a hardened washer with a series of protrusions on one face. Induced bolt tension is indicated directly and so time is saved not only in tightening but in inspection. You are assured of maximum consistency in bolt tensions with a minimum of operator skill

As the bolt is tightened the protrusions are flattened and the gap reduced. At a specific average gap measured by a feeler gauge as fig 2 the induced shank tension will not be less than the minimum required by standards.

Load Indicator Fitting	Inch Series General Grade	Metric Series General Grade Part 1
Black Finish	0.015 in	0.40 mm
All Platings except Spun Galv	0.015 in	0.40 mm
Spun Galv	0.010 in	0.25 mm
Under nut with nut face washer	0.010 in	0.25 mm



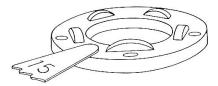


Fig. 2

Holding Down Bolts

Indented Foundation Bolts and Nuts

The indented foundation bolt is a proved and accepted means of obtaining a positive and permanent anchorage to Floors. The disposition of the angular faces on the indented portion has been designed to withstand high axial stresses.

Made from Grade 4.6 mild steel, foundation bolts can be supplied black (self colour), bright zinc plated or galvanised.

Available Sizes

	M8	M10	M12	M16	M20	M24	M30
100	•	•					
120	•	•	•				
160	•	•	•	•			
200	•	•	•	•	•		
225		•	•	•	•	•	
250			•	•	•	•	
275				•	•	•	•
300					•	•	•
350						•	•
400						•	•
450						•	•



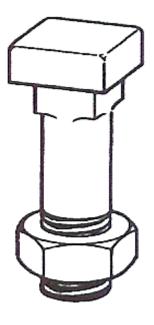
Square Square Round Hex Holding Down Bolts

The Square Square Round Hex Holding Down Bolt is the more modern approach for anchoring into floors. The system would usually comprise of the holding down bolt, a square plate washer and either a metal or poly bolt box.

The partnership of the bolt and square hole washer prevents the bolts rotation after installation. The bolt boxes are commonly used to create a void around the bolt which enables minor adjustment after the concrete has set.

Available Sizes

	M16	M20	M24	M30	M36
300	•	•			
375	•	•	•		
450	•	•	•	•	•
525	•	•	•	•	•
600	•	•	•	•	•
750		•	•	•	•
1000		•	•	•	•
1250			•	•	•



Coach Screws Din 571



Material; Finish; Mild Steel grade 4.6 Gimlet point Bright Zinc Plated, Galvanised

Available Sizes

	M6	M8	M10	M12	M16
20	•				
25	•	•	•		
30	•	•	•		
35	•	•	•		
40	•	•	•		
45	•	•	•	•	
50	•	•	•		SP
60	•	•			SP
65	•	•			SP
70	•	•			SP
80	•	•			SP
90	•	•	•	•	SP
100	•	•			SP
110	•	•			SP
120	•	•	•	•	SP
130	•	•	•	•	SP
140	•	•	•	•	SP
150	•	•	•	•	SP
160			•	•	SP
180			•	•	SP
200				•	SP

Key

O SD

= Stock Item

SP = Special Order Only

Coachbolts Din 603



Material;

Mild Steel grade 4.6

Finish;

Self Colour, Bright Zinc Plated, Galvanised*

Available Sizes

	M5	M6	M8	M10	M12	M16
12	•	•				
16	•	•	•			
20	•	•	•	•		
25	•	•	•	•	•	
30	•	•	•	•	•	
35		•	•	•	•	
40	•	•	•	•	•	
45		•	•	•	•	
50	•	•	•	•	•	SP
60		•	•	•	•	SP
65		•	•	•	•	SP
70		•	•	•	•	SP
80		•	•	•	•	SP
90		•	•	•	•	SP
100		•	•	•	•	SP
110		•	•	•	•	SP
120			•	•	•	SP
130		•	•	•	•	SP
140		•	•	•	•	SP
150		•	•	•	•	SP
160			•	•	•	SP
180		•	•	•	•	SP
200			•	•	•	SP
220				•	•	SP
230				•	•	SP
240				•	•	SP
260				•	•	SP
280				•	•	SP
300				•	•	SP
350					•	SP
400					•	SP

Fully threaded up to 100mm

Studding (Threaded Bar)

Mild Steel Grade 4.8

Finish; Self Colour, Bright Zinc Plated,

Galvanised (on dia M8 and over)

Also available in pre-cut lengths by advance order.

SFR SR

Available Sizes

	М3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39
1 meter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 meter				•	•	•	•	SP	•	SP	•	SP						
3 meter				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Key = Stock Item
SP = Special Order Only

High Tensile Grade 8.8

Finish; Self Colour, Bright Zinc Plated,, Galv

Also available in pre-cut lengths by advance order.

Available Sizes

	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39
1 meter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 meter	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	
3 meter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Key = Stock Item
SP = Special Order Only

Studding in other materials

	М3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39
Stainless Steel	•	•	•	•	•	•	•	•	•	SP	•	SP	•	SP	•	•	•	SP
Brass	SP	•	•	•	•	•	SP	SP	SP	SP	SP							
Nylon	•	•	•	•	•	•	SP	SP	SP									

Key ■ = Stock Item SP = Special Order Only

Machine Screws BS4183: 1967

Countersunk Pozi & Slotted

Materials; Mild Steel Slotted (RSR CODE 0451)
Mild Steel Pozi (RSR CODE 0461)
Stainless Steel Slotted (RSR CODE 0471)
Stainless Steel Pozi (RSR CODE 0481)

Brass Slotted (RSR CODE 0491) Nylon Slotted (RSR CODE 0442)

Finish; Self Colour, Bright Zinc Plated (Mild Steel Only)



Dimensional Data

Thread Dia	Head Dia	Head Dia	Head Height	Head Height	Thread
	Max mm	Min mm	Max mm	Min mm	Length mm
M2	4.40	3.50	1.20	1.08	16.0
M3	6.30	5.25	1.62	1.50	19.0
M3.5	7.35	6.12	1.93	1.75	20.0
M4	8.40	7.04	2.20	2.00	22.0
M5	10.00	8.75	2.50	2.25	25.0
M6	12.00	10.50	3.00	2.70	28.0
M8	16.00	14.00	4.00	3.60	34.0
M10	20.00	17.50	5.00	4.50	40.0
M12	24.00	21.00	6.00	5.40	45.0

Pan Head Pozi & Slotted

Materials; Mild Steel Slotted (RSR CODE 0452)

Mild Steel Pozi (RSR CODE 0462)
Stainless Steel Slotted (RSR CODE 0472)
Stainless Steel Pozi (RSR CODE 0482)
Brass Slotted (RSR CODE 0492)
Nylon Slotted (RSR CODE 0440)

Finish; Self Colour, Bright Zinc Plated



Dimensional Data

Thread Dia	Head Dia	Head Dia	Head Height Slotted	Head Height Slotted	Head Height Pozi	Head Height Pozi	Thread Length mm
	Max mm	Min mm	Max mm	Min mm	Max mm	Min mm	
M2.5	5.00	4.70	1.50	1.36	1.75	1.61	18.0
M3	6.00	5.70	1.80	1.66	2.10	1.96	19.0
M3.5	7.00	6.64	2.10	1.96	2.45	2.31	20.0
M4	8.00	7.64	2.40	2.26	2.80	2.66	22.0
M5	10.00	9.64	3.00	2.86	3.50	3.32	25.0
M6	12.00	11.57	3.60	3.42	4.20	3.98	28.0
M8	16.00	15.57	4.80	4.62	5.60	5.42	34.0
M10	20.00	19.48	6.00	5.82	7.00	6.78	40.0

Self Tapping Screws BS4174:1972

Countersunk Slotted & Pozi Head Type AB and B

Materials; Mild Steel Slotted (RSR CODE 0501) Mild Steel Pozi (RSR CODE 0505)

Stainless Steel Slotted (RSR CODE 0541)
Stainless Steel Pozi (RSR CODE 0545)

Finish; Bright Zinc Plated (Mild Steel Only)



Availability Chart

	No4	No6	No8	No10	No12	No14
1/4"	•					
5/16"	•	•				
3/8"	•	•	•			
1/2"	•	•	•	•		
5/8"	•	•	•	•	•	
3/4"	•	•	•	•	•	
1"	•	•	•	•	•	•
1.1/4"		•	•	•	•	•
1.1/2"		•	•	•	•	•
1.3/4"		•	•	•	•	•
2"			•	•	•	•

Countersunk Head Dimensions

Gauge	Diameter of Head	Depth of Head
	mm	mm
No2	3.73	1.30
No4	4.95	1.70
No6	6.20	2.11
No8	7.42	2.54
No10	8.64	2.95
No12	9.88	3.35
No14	11.48	3.89

Pan Slotted & Pozi Head Type AB and B

Materials; Mild Steel Slotted (RSR CODE 0502) Mild Steel Pozi (RSR CODE 0506)

Stainless Steel Slotted (RSR CODE 0542)

Stainless Steel Pozi (RSR CODE 0546)

Finish; Bright Zinc Plated (Mild Steel Only)



Availability Chart

	No4	No6	No8	No10	No12	No14
3/16"	•					
1/4"	•	•				
5/16"	•	•	•			
3/8"	•	•	•	•		
1/2"	•	•	•	•	•	•
5/8"	•	•	•	•	•	•
3/4"	•	•	•	•	•	•
1"	•	•	•	•	•	•
1.1/4"		•	•	•	•	•
1.1/2"		•	•	•	•	•
1.3/4"		•	•	•	•	•
2"			•	•	•	•

Pan Head Dimensions

Gauge	Dia of Head	Dia of Head	Depth of Head	Depth of Head	Depth of Head	Depth of Head
	Max	Min	Slotted Max	Slotted Min	Pozi Max	Pozi Min
No2	4.24	3.94	1.35	1.14	1.57	1.35
No4	5.56	5.21	1.73	1.47	2.03	1.78
No6	6.86	6.50	2.08	1.83	2.46	2.21
No8	8.18	7.77	2.44	2.16	2.92	2.67
No10	9.47	9.07	2.79	2.51	3.38	3.10
No12	10.80	10.34	3.18	2.84	3.84	3.53
No14	12.50	12.01	1.90	1.63	4.44	4.11

Self Tapping Screws BS4174: 1972

Recommended Hole & Drill Sizes

Gauge	Material Thickness	Material Thickness	Hole Dia Required
	mm	SWG	mm
No2	0.45	26	1.60
	0.91	20	1.85
	1.62	16	1.95
No4	0.45	26	2.05
	0.91	20	2.30
	1.62	16	2.40
	2.03	14	2.60
No6	0.45	26	2.35
	0.91	20	2.80
	1.62	16	2.95
	2.03	14	3.10
	2.64	12	3.20
No8	0.71	22	2.90
	0.91	20	3.10
	1.22	18	3.20
	1.62	16	3.40
	2.64	12	3.70
	3.18	1/8"	3.80
No10	0.71	22	3.40
	1.22	18	3.60
	1.62	16	3.80
	2.64	12	4.10
	3.18	1/8"	4.30
	4.75	3/16"	4.50
No12	0.71	22	4.10
	1.22	18	4.30
	1.62	16	4.50
	2.64	12	4.80
	3.18	1/8"	4.90
	4.75	3/16"	5.10
No14	1.22	18	4.80
	1.62	16	5.20
	2.03	14	5.40
	3.18	1/8"	5.70
	4.75	3/16"	5.90
	6.35	1/4"	6.00

Pozi Woodscrews Zinc and Yellow Tropicalized



- Yellow Tropicalized giving approximately 20 times more resistance than the standard BZP screw
- The very sharp 25 deg point with the thread running to the end allowing immediate starting.
- Specially hardened steel gives the R2 maximum tensile and torsional strength.
- The invisible Reisser lubricant helps the screw drive in quickly and easily



Countersunk Availability

		3.0mm	3.5mm	4.0mm	4.5mm	5.0mm	6mm	8mm
ŀ	10mm	•						
ļ	12mm	•	•	•				
ľ	16mm	•	•	•	•			
ľ	20mm	•	•	•	•	•		
	25mm	•	•	•	•	•		
	30mm	•	•	•	•	•		
	35mm	•	•	•	•	•	•	
	40mm	•	•	•	•	•	•	
	45mm	•	•	•	•	•	•	
ľ	50mm		•	•	•	•	•	
Ì	60mm			•	•	•	•	
3111	70mm			•	•	•	•	
Leilgii	80mm				•	•	•	•
	90mm					•	•	•
ľ	100mm					•	•	•
	120mm					•	•	•
	130mm						•	•
	140mm						•	•
	150mm						•	•
ľ	180mm						•	•
ľ	200mm						•	•
j	240mm						•	•
ľ	260mm						•	•
ľ	280mm						•	•
ľ	300mm						•	•



Pan Head (Roundhead) Availability

			•			I	
		3.0m m	3.5m m	4.0m m	4.5m m	5.0m m	6mm
	10mm						
	12mm	•	•	•			
	16mm	•	•	•	•	•	
	20mm	•	•	•	•	•	
	25mm	•	•	•	•	•	
	30mm	•	•	•	•	•	
Length	35mm		•	•	•	•	•
Ler	40mm		•	•	•	•	•
	45mm			•	•	•	•
	50mm			•	•	•	•
	60mm			•	•	•	•
	70mm					•	•
	80mm					•	•
	90mm						•
	100mm						•
	120mm						•

Imperial to Metric Equivalents

=		
Woodscrew Gauge	Exact Metric Equivalent	Nearest Wood- screw
No4	3.10mm	3.0mm
No6	3.45mm	3.5mm
No8	4.17mm	4.00mm
No10	4.88mm	5.00mm
No12	5.59mm	6.00mm
No14	6.30mm	6.00mm



Self Drilling Screws

Ejot Saphir Self Drilling Heavy Section Fasteners JT2 with Washers

For steel sections 4.0 to 12mm in thickness. Assembled with a aluminium / EPDM vulcanised sealing Washer



Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539hs38g16	5.5	38	4.00	14.00
0539hs55g16	5.5	55	4.00	28.00
0539hs65g16	5.5	65	4.00	39.00
0539hs76g16	5.5	76	4.00	50.00

Ejot Saphir Self Drilling Heavy Section Fasteners JT2

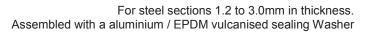
For steel sections 4.0 to 12mm in thickness.



Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539hs38	5.5	38	4.00	16.00
0539hs55	5.5	55	4.00	30.00
0539hs65	5.5	65	4.00	41.00
0539hs76	5.5	76	4.00	52.00
0539hs100	5.5	100	42.00	76.00
0539hs115	5.5	115	42.00	91.00
0539hs125	5.5	125	42.00	101.00

Ejot Saphir Self Drilling Light Section Fasteners JT2 with Washers





Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539ls25g16	5.5	25	1.20	6.00
0539ls32g16	5.5	32	1.20	11.00
0539ls38g16	5.5	38	1.20	14.00
0539ls50g16	5.5	50	1.20	35.00
0539ls70g16	5.5	70	27.00	55.00



Ejot Saphir Self Drilling Light Section Fasteners

For steel sections 1.2 to 3.0mm in thickness.

Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539ls25	5.5	25	1.20	8.00
0539ls50	5.5	50	1.20	37.00
0539ls70	5.5	70	30.00	57.00

Self Drilling Screws & Drywall Screws



Ejot Saphir Self Drilling Light Section Wing Drill Fasteners JT2



For steel sections 1.5 to 3.0mm in thickness.

Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539wdls25	4.2	25	6.00	12.00
0539wdls38	4.8	38	6.50	22.00
0539wdls50	5.5	50	6.50	34.00
0539wdls85	5.5	85	23.00	67.00
0539wdls100	5.5	100	38.00	82.00
0539wdls127	5.5	127	65.00	109.00
0539wdls85	6.3	85	23.00	67.00

Ejot Saphir Self Drilling Heavy Section Wing Drill Fasteners JT2

For steel sections 4.0 to 10.0mm in thickness.

Order	Dia	Length	Fixing Range	
Code	mm	mm	Min mm	Max mm
0539wdhs25	5.5	65	8.00	35.00
0539wdhs85	5.5	85	30.00	55.00
0539wdhs119	5.5	119	60.00	89.00

Please contact sales for our separate cd-rom on the full range of Ejot self drilling fixings available from RSR

Drywall Screws



Standard Drywall Screws Black Phosphate or Zinc Plated

3.5mm x 25mm	Boxed in 1,000's
3.5mm x 32mm	Boxed in 1,000's
3.5mm x 38mm	Boxed in 1,000's
3.5mm x 42mm	Boxed in 1,000's
3.5mm x 45mm	Boxed in 1,000's
3.5mm x 50mm	Boxed in 1,000's
3.5mm x 55mm	Boxed in 500's
3.5mm x 60mm	Boxed in 500's
4.2mm x 65mm	Boxed in 500's
4.2mm x 75mm	Boxed in 200's

4.8mm x 100mm Boxed in 200's

Jackpoint Drywall Screws Zinc Plated

3.5mm x 25mm Boxed in 1,000's 3.5mm x 32mm Boxed in 1,000's 3.5mm x 38mm Boxed in 1,000's 3.5mm x 42mm Boxed in 1,000's 3.5mm x 50mm Boxed in 1,000's 3.5mm x 55mm Boxed in 500's 4.2mm x 65mm Boxed in 500's 4.2mm x 75mm Boxed in 200's

Phillips Recess Driver bits No2 Self Drilling Tip Made from C10-8 Steel Bugle Head

Wafer head Self-drilling Screws

4.2mm x 13.5mm (No 8 x 9/16") Boxed in 1,000's

Phillips Recess Driver bits No2 Self Drilling Tip Made from C10-8 Steel



Brass and Stainless Slotted Woodscrews



Brass Countersunk Availability

		No4	No6	No8	No10	No12	No14
	1/2"	•	•	•			
	5/8"	•	•	•			
	3/4"	•	•	•	•		
	1"	•	•	•	•	•	
grn	1.1/4"		•	•	•	•	
Lengtn	1.1/2"		•	•	•	•	
	2"		•	•	•	•	•
	2.1/2"			•	•	•	
	3"			•	•	•	
	3.1/2"				•	•	
	4"				•	•	•



Stainless DIN97 Countersunk Availability

		2.5mm	3.0mm	3.5mm	4.0mm	4.5mm	5.0mm	6.0mm
l	12mm	•						
	16mm	•	•	•	•			
	20mm		•	•	•		•	
Lengtn	25mm		•	•	•	•	•	•
Le	30mm		•	•	•	•	•	•
	35mm			•	•	•	•	•
	40mm			•	•	•	•	•
	45mm			•	•	•	•	•
	50mm				•	•	•	•
	60mm				•	•	•	•
	70mm				•		•	•
	80mm						•	•
	90mm						•	•
	100mm						•	•



Brass Roundhead Availability

	No4	No6	No8	No10	No12
3/8"	•	•	•		
1/2"	•	•	•		
5/8"	•	•	•		
3/4"	•	•	•	•	
1"	•	•	•	•	•
1.1/4"		•	•	•	•
1.1/2"		•	•	•	•
2"		•	•	•	•
2.1/2"			•	•	•
3"			•	•	•



Stainless DIN96 Roundhead Availability

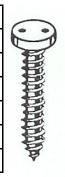
				1			
		3.0mm	3.5mm	4.0mm	4.5mm	5.0mm	6.0mm
	12mm						
	16mm	•	•	•			
_	20mm	•	•	•		•	
Length	25mm		•	•		•	
Ĭ	30mm		•	•	•	•	•
	35mm		•	•	•	•	•
	40mm			•	•	•	•
	45mm			•	•	•	•
	50mm			•	•	•	•
	60mm			•		•	•
	70mm					•	•
	80mm					•	•
	90mm					•	•
	100mm					•	

Lenath

Snake Eye Security Screws A2 Stainless Steel

Snake eye Pan Head Self Tappers

	3/8"	1/2"	5/8"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	Bit Size
No4	•	•	•	•		•				TH3
No6	•	•	•	•	•	•	•			TH4
No8	•	•	•	•	•	•	•			TH5
No10	•	•	•	•	•	•	•	•		TH6
No12		•					•			TH7
No14			•	•	•	•	•			TH8



Snake eye Countersunk Head Self Tappers

	3/8"	1/2"	5/8"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	Bit Size
No4	•	•		•	•	•				TH3
No6	•	•	•	•	•	•	•			TH4
No8	•	•	•	•	•	•	•			TH5
No10		•	•	•	•	•	•	•		TH6
No12				•		•	•			TH7
No14			•	•	•	•	•			TH8



Snake eye Countersunk Head Machine Screws

	6mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	Bit Size
M3		•	•	•			•			TH3
M4		•	•	•	•	•	•	•		TH5
M5			•	•	•	•	•	•		TH6
M6			•	•	•	•	•		•	TH8
M8	_		SP	TH9						
M10	-			SP	SP	SP	SP	SP	SP	TH10



Snake eye Pan Head Machine Screws

	6mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	Bit Size
М3		•	•	•						TH3
M4	•	•	•	•	•	•				TH5
M5			•	•	•	•	•			TH6
M6			•	•	•	•	•		•	TH8
M8			SP	TH9						
M10				SP	SP	SP	SP	SP	SP	TH10



Pin Hex Security Screws A2 Stainless Steel

Pin Hex Countersunk Head Self Tappers

	3/8"	1/2"	5/8"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	Bit Size
No4										
No6	•	•	•	•		•				H30
No8		•	•	•	•	•	•			H40
No10		•	•	•	•	•	•	•		H40
No12				•	•	•				H40
No14				•	•	•	•			H40



Pin Hex Button Head Self Tappers

	3/8"	1/2"	5/8"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	Bit Size
No4										
No6	•	•	•	•		•				H30
No8	•	•	•	•	•	•	•			H40
No10		•	•	•	•	•	•	•		H40
No12				•	•	•	•			H40
No14				•	•	•	•	•		H40



Pin Hex Countersunk Head Machine Screws

	8mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	50mm	60mm	Bit Size
М3		•	•	•								H20
M4	•	•	•	•	•	•	•		•			H40
M5		•	•	•	•	•	•		•	•	•	H40
M6	•	•	•	•	•	•	•		•	•	•	H40
M8			•	•	•	•	•	•	•	•	•	H50
M10					•	•	•		•	•	•	H60



Pin Hex Button Head Machine Screws

	8mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	50mm	60mm	100mm	Bit Size
МЗ		•	•	•									H20
M4	•	•	•	•	•	•	•		•				H40
M5		•	•	•	•	•	•		•	•	•		H40
M6		•	•	•	•	•	•		•	•	•		H40
M8			•	•	•	•	•	•	•	•	•		H50
M10				•	•	•	•		•	•	•	•	H60



Security Fasteners

Clutch Head Woodscrews

Clutch head woodscrews are a tried and tested screws which can only be turned in a clockwise direction.



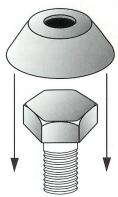
6-Lobe Resistorx



6-Lobe security screws with internal pin provide excellent results in high torque applications

Simple collar when tapped over standard bolts and nuts makes them tamper resistant.



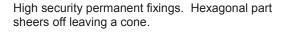


4 Hole Security Nut



This special security nut is almost impossible to remove without the special matching tool.

Shear Bolts and Nuts









Oval Pan Machine Screws



This special security screw is designed to look round but is actually oval and can be installed and removed with the matching tool.

ISO Metric Socket Cap Screws BS4168 DIN912

Materials; High Tensile Grade 12.9

High Tensile Grade 8.8 Stainless Steel A2 Stainless Steel A4 (RSR CODE 0401) Special Order Only (RSR CODE 0411) Special Order Only

Finish; Self Colour, Bright Zinc Plated

Wrench Key Sizes

M3 M4 M5 M6 M8	2.5mm AF
M4	3.0mm AF
M5	4.0mm AF
M6	5.0mm AF
M8	6.0mm AF

M10 8.0mm AF M12 10.0mm AF M16 14.0mm AF M20 17.0mm AF M24 19.0mm AF M27 19.0mm AF M30 22.0mm AF M36 27.0mm AF



High Tensile Socket Cap Screw Availability

-								~						
		M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M27	M30	M36
	5mm	SP	SP											
	6mm	•	SP	SP										
	8mm	•	•	•	SP									
	10mm	•	•	•	•	SP	SP							
	12mm	•	•	•	•	•	•	SP						
	14mm	SP	SP	SP	SP	•	SP							
	16mm	•	•	•	•	•	•	SP						
	20mm	•	•	•	•	•	•	•						
	25mm	•	•	•	•	•	•	•	•					
	30mm	•	•	•	•	•	•	•	•	•				
	35mm		•	•	•	•	•	•	•	•				
	40mm		•	•	•	•	•	•	•	•	•			
	45mm		•	•	•	•	•	•	•	•	•			
	50mm		•	•	•	•	•	•	•	•	•			
٦	60mm			•	•	•	•	•	•	•	•			
Length	70mm			•	•	•	•	•	•	•	•			
٦	80mm				•	•	•	•	•	•	•	SP	•	•
	90mm				•	•	•	•	•	•	•	SP	•	
	100mm				•	•	•	•	•	•	•	SP	•	•
	110mm				•	•	•	•	•	•	•		•	
	120mm				•	•	•	•	•	•	•	SP	•	•
	130mm					•	•	•	•	•	•		•	•
	140mm					•	•	•	•	•	•	SP	•	•
	150mm					•	•	•	•	•	•	SP	•	•
	160mm					•	•	•	•	•	•		•	•
ſ	180mm					•	•	•	•	•	•	SP	•	•
ſ	200mm					•	•	•	•	•	•		•	•
ſ	220mm						•			•	•		•	•
	240mm									•	•		•	•
ſ	260mm							SP		•	•		•	•
ſ	280mm									•	•		•	•
ſ	300mm								•	•	•		•	•

dtono

Socket Countersunk Screws BS4168 DIN7991

Materials; High Tensile Grade 10.9

High Tensile Grade 8.8 Stainless Steel A2 Stainless Steel A4 (RSR CODE 0402) Special Order Only (RSR CODE 0412) Special Order Only

Finish; Self Colour, Bright Zinc Plated

Wrench Key Sizes

M3	2.0mm AF
M4	2.5mm AF
M5	3.0mm AF
M6	4.0mm AF
M8	5.0mm AF

M10 6.0mm AF M12 8.0mm AF M16 10.0mm AF M20 12.0mm AF M24 14.0mm AF



High Tensile Socket Countersunk Screw Availability

	М3	M4	M5	M6	M8	M10	M12	M16	M20	M24
6mm	•									
8mm	•	•	•	•						
10mm	•	•	•	•	SP					
12mm	•	•	•	•	•	•				
14mm			SP	SP	SP	SP				
16mm	•	•	•	•	•	•				
20mm	•	•	•	•	•	•	•			
25mm	•	•	•	•	•	•	•			
30mm	•	•	•	•	•	•	•	•		
35mm		SP	•	•	•	•	•	•	SP	
40mm		•	•	•	•	•	•	•	•	
45mm			•	•	•	•	•	•	SP	
50mm			•	•	•	•	•	•	•	
55mm								SP	SP	
60mm					•	•	•	•	•	SP
70mm					•	•	•	•	•	•
80mm						•	•	•	•	SP
90mm						•	•	•	•	SP
100mm						•	•	•	•	SP
110mm								•	•	
120mm								•	•	
140mm								•	•	
160mm								SP	SP	

l anoth

Socket Button Screws BS4168

Materials; High Tensile Grade 10.9

Stainless Steel A2 Stainless Steel A4 (RSR CODE 0403) (RSR CODE 0413) Special Order Only

Finish; Self Colour, Bright Zinc Plated

Wrench Key Sizes

M3 2.0mm AF M4 2.5mm AF M5 3.0mm AF M6 4.0mm AF M8 5.0mm AF M10 6.0mm AF M12 8.0mm AF



High Tensile Socket Button Screw Availability

		М3	M4	M5	M6	M8	M10	M12
	5mm	•						
Ì	6mm	•	•	•	SP			
Ì	8mm	•	•	•	•			
Ì	10mm	•	•	•	•	•		
Ì	12mm	•	•	•	•	•		
Ì	15mm		SP	•	•	•		
	16mm	•	•	•	•	•	•	•
Length	18mm			SP	SP	•	•	
Ĭ	20mm			•	•	•	•	SP
Ì	22mm			SP		•	•	
Ì	25mm			•	•	•	•	•
Ì	30mm			•	•	•	•	•
ŀ	35mm					•	•	•
ŀ	40mm					•	•	•
ŀ	45mm							•
	50mm							•

Socket Set Screws BS4168 DIN916

Plain Cup Point

Materials; High Tensile 14.9 (RSR CODE 0405)

Stainless Steel A2 (RSR CODE 0415)

Finish; Self Colour, Bright Zinc Plated

Wrench Key Sizes

M3 1.5mm AF M4 2.0mm AF M5 2.5mm AF M6 3.0mm AF M8 4.0mm AF M10 5.0mm AF M12 6.0mm AF M16 8.0mm AF M20 10.0mm AF M24 12.0mm AF



Used against hardened shafts in zinc, die castings and other soft materials where high tightening torques are impractical.

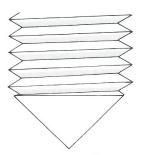
High Tensile Socket Set Screw Availability

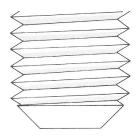
		M3	M4	M5	M6	M8	M10	M12	M16	M20	M24
	3mm	•									
	4mm	•	•								
	5mm	•	•	•							
	6mm	•	•	•	•						
	8mm	•	•	•	•	•					
	10mm	•	•	•	•	•					
	12mm	•	•	•	•	•	•	•			
	15mm		SP	•	•	SP	•	•			
Length	16mm	•	•	•	•	•	•	•	•		
_	20mm		•	•	•	•	•	•	•	•	
	25mm			•	•	•	•	•	•	•	•
	30mm			•	•	•	•	•	•	•	SP
	35mm				SP	•	•	•	SP	SP	SP
	40mm				•	•	•	•	•	•	•
	45mm				SP		SP	SP	SP		
	50mm				•	•	•	•	•	•	SP
	55mm								SP		
	60mm							•	•	•	SP

Socket Set Screws - Other Points

Cone Point

Used for permanent location of parts. Deep penetration gives highest axial and torsional holding power. UNBRAKO cone point set screws are ideally suited for use as pivots, and for applications where fine adjustments are necessary.





Flat Point

Used where parts must be frequently re-set, as it causes little or no damage to the part it bears against. Can be used against hardened shafts (usually with ground flat for better contact) and as adjusting screw. Preferred for thin wall thickness and on soft plugs.

Dog Point

Used for permanent location of one part to another. The point is usually spotted in a hole drilled in a shaft or on a flat surfaced milled on the shaft





Oval Point

Used for frequent adjustment without deformation of part it bears against, also for seating against an angular surface. Circular U-grooves or axial V-grooves sometimes put in shaft to permit rotational or longitudinal adjustment.

Knurled Cup Point

Knurled Cup Point—Used for quick, permanent location of gears, collars and pulleys on shafts. Resists severe vibration. On all set screws over 6mm the cup is counter-bored to provide maximum holding power.



Nuts

Threads

Hexagon Full Nuts and Lock Nuts (Half Nuts)

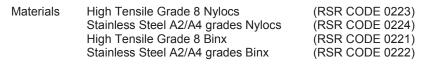
High Tensile Grade 8	(RSR CODE 0203)
Mild Steel Grade 4.6	(RSR CODE 0201)
Stainless Steel A2 and A4 grades	(RSR CODE 0205)
Brass	(RSR CODE 0206)
Nylon	(RSR CODE 0224)
	Mild Steel Grade 4.6 Stainless Steel A2 and A4 grades Brass

Finishes High Tensile and Mild Steel only available in Self Colour, Bright Zinc Plated, Galvanised, Sherardized, Zinc & Yellow Passivate.

ds Metric, Metric Fine, BSW, BSF, UNC, UNF, BA

Self Locking Nuts Binx and Nylocs

The self locking nut as the name implies feature inbuilt methods to resist movement through vibration. The Binx nut has grooves cut into the face of the nut then the top is compressed, the action of threading onto a bolt then pushes against the face of the nut applying an opposing force. The nyloc nut contains a Nylon insert, when tightening onto a bolt a thread is formed in the nylon holding the nut in place. Nylocs are available in both Type T (Thin Type) or Type P (Standard)



Finishes High Tensile available in Bright Zinc Plated, Galvanised,

Sherardized, Zinc & Yellow Passivate.

Threads Metric, Metric Fine, BSW, BSF, UNC, UNF, BA

Specialized Nuts

Studding connectors are elongated nuts that form as a connector to either join two matching threads or can also be provided to connect two different threads.

Dome nuts are capped and are primarily used in applications were the nut is to be seen and to protect people against abrasions with the screwed thread.

Wing Nuts form a simple means of hand tightening and unscrewing with out the need of tools.

Materials	Mild Steel Grade 4.6 Connectors	(RSR CODE 0850)
	Mild Steel Dome Nuts	(RSR CODE 0241)
	Stainless Steel Dome Nuts	(RSR CODE 0242)
	Brass Dome Nuts	(RSR CODE 0223)
	Nylon Dome Nuts	(RSR CODE 0244)
	Mild Steel Wing Nuts	(RSR CODE 0231)
	Stainless Steel Wing Nuts	(RSR CODE 0232)



Brass Wing Nuts

Studding Connectors



(RSR CODE 0233)

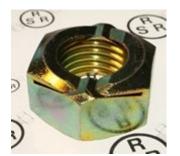
Wing Nut



Full Nuts



Lock Nuts (Half Nuts)



Binx Nut



Nyloc Nut



Dome Nut

Full Nuts BS4190

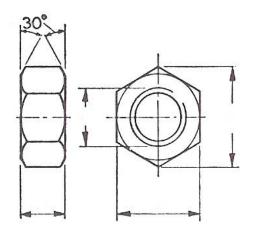
Hexagon Full Nuts and Lock Nuts (Half Nuts)





Full & Lock Nut Dimensions

Thread Dia	Pitch	Width Across Flats		Thickness of Full Nut		Thickness of Lock Nut	
	Coarse	Max	Min	Max	Min	Max	Min
M3	0.5	5.50	5.38	2.40	2.15		
M4	0.7	7.00	6.85	3.20	2.90		
M5	8.0	8.00	7.85	4.00	3.70		
M6	1	10.00	9.78	5.00	4.70		
M8	1.25	13.00	12.73	6.50	6.14	5.00	4.70
M10	1.5	17.00	16.73	8.00	7.64	6.00	5.70
M12	1.75	19.00	18.67	10.00	9.64	7.00	6.64
M16	2	24.00	23.67	13.00	12.57	8.00	7.64
M20	2.5	30.00	29.67	16.00	15.57	9.00	8.64
M22	2.5	32.00	31.61	18.00	17.57	10.00	9.64
M24	3	36.00	35.38	19.00	18.48	10.00	9.64
M27	3	41.00	40.38	22.00	21.48	12.00	11.57
M30	3.5	46.00	45.38	24.00	23.48	12.00	11.57
M33	3.5	50.00	49.38	26.00	25.48	14.00	13.57
M36	4	55.00	54.26	29.00	28.48	14.00	13.57
M39	4	60.00	59.26	31.00	30.38	16.00	15.57
M42	4.5	65.00	64.26	34.00	33.38	16.00	15.57
M45	4.5	70.00	69.26	36.00	35.38	18.00	17.57
M48	5	75.00	74.26	38.00	37.38	18.00	17.57
M52	5	80.00	79.26	42.00	41.38	20.00	19.48
M56	5.5	85.00	84.13	45.00	44.38		





Full Nut

Washers Form A & B BS4320: 1968

Materials Bright Mild Steel Form A

(RSR CODE 0333) Bright Mild Steel Form B (RSR CODE 0331) Stainless Steel Form A (RSR CODE 0343) Stainless Steel Form B (RSR CODE 0341) Brass Form A (RSR CODE 0353) Brass Form B (RSR CODE 0351)

Finish for Steel Bright Zinc Plated, Zinc & Yell Passivate,

Galv (M6 and Up), Sherardized



Form A and B washer dimensions

	Inside			Outside			Thickness					
	Diameter			Diameter			Form A			Form B		
	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min
M2				5.0	5.0		0.3					
M2.5							0.5					
M3				7.0	7.0	6.7	0.5	0.6	0.4			
M3.5	3.7	3.9	3.7	7.0	7.0	6.7	0.5	0.6	0.4			
M4	4.3	4.5	4.3	9.0	9.0	8.7	8.0	0.9	0.7			
M5	5.3	5.5	5.3	10.0	10.0	9.7	1.0	1.1	0.9			
M6	6.4	6.7	6.4	12.5	12.5	12.1	1.6	1.8	1.4	8.0	0.9	0.7
M8	8.4	8.7	8.4	17.0	17.0	16.6	1.6	1.8	1.4	1.0	1.1	0.9
M10	10.5	10.9	10.5	21.0	21.0	20.5	2.0	2.2	1.8	1.25	1.45	1.05
M12	13.0	13.4	13.0	24.0	24.0	23.5	2.5	2.7	2.3	1.6	1.8	1.4
M14	15.0	15.4	15.0	28.0	28.0	27.5	2.5	2.7	2.3	1.6	1.8	1.4
M16	17.0	17.4	17.0	30.0	30.0	29.5	3.0	3.3	2.7	2.0	2.2	1.8
M18	19.0	19.5	19.0	34.0	34.0	33.2	3.0	3.3	2.7	2.0	2.2	1.8
M20	21.0	21.5	21.0	37.0	37.0	36.2	3.0	3.3	2.7	2.0	2.2	1.8
M24	25.0	25.5	25.0	44.0	44.0	43.2	4.0	4.3	3.7	2.5	2.7	2.3
M27	28.0	28.5	28.0	50.0	50.0	49.2	4.0	4.3	3.7	2.5	2.7	2.3
M30	31.0	31.6	31.0	56.0	56.0	55.0	4.0	4.3	3.7	2.5	2.7	2.3
M33	34.0	34.6	34.0	60.0	60.0	59.0	5.0	5.6	4.4	3.0	3.3	2.7
M36	37.0	37.6	37.0	66.0	66.0	65.0	5.0	5.6	4.4	3.0	3.3	2.7
M39	40.0	40.6	40.0	72.0	72.0	71.0	6.0	6.6	5.4	3.0	3.3	2.7

Washers Form C & D BS4320: 1968

Materials Bright Mild Steel Form C (RSR CODE 0337)
Bright Mild Steel Form D (RSR CODE 0335)

Bright Mild Steel Form D
Stainless Steel Form C
Stainless Steel Form D
Brass Form C
Brass Form D

RSR CODE 0335)
(RSR CODE 0347)
(RSR CODE 0345)
(RSR CODE 0357)
(RSR CODE 0355)

Finish for Steel Bright Zinc Plated, Zinc & Yell Passivate,

Galv (M6 and Up), Sherardized



Form C and D washer dimensions

	Inside Diameter			Outside			Thickness	i				
				Diameter	Diameter					Form D		
	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min
M4	4.3	4.5	4.3	10.0	10.0	9.7	0.8	0.9	0.7			
M5	5.3	5.5	5.3	12.5	12.5	12.1	1.0	1.1	0.9			
M6	6.4	6.7	6.4	14.0	14.0	13.6	1.6	1.8	1.4	0.8	0.9	0.7
M8	8.4	8.7	8.4	21.0	21.0	20.5	1.6	1.8	1.4	1.0	1.1	0.9
M10	10.5	10.9	10.5	24.0	24.0	23.5	2.0	2.2	1.8	1.25	1.45	1.05
M12	13.0	13.4	13.0	28.0	28.0	27.5	2.5	2.7	2.3	1.6	1.8	1.4
M14	15.0	15.4	15.0	30.0	30.0	29.5	2.5	2.7	2.3	1.6	1.8	1.4
M16	17.0	17.4	17.0	34.0	34.0	33.2	3.0	3.3	2.7	2.0	2.2	1.8
M18	19.0	19.5	19.0	37.0	37.0	36.2	3.0	3.3	2.7	2.0	2.2	1.8
M20	21.0	21.5	21.0	39.0	39.0	38.2	3.0	3.3	2.7	2.0	2.2	1.8
M24	25.0	25.5	25.0	50.0	50.0	49.2	4.0	4.3	3.7	2.5	2.7	2.3
M27	28.0	28.5	28.0	56.0	56.0	55.0	4.0	4.3	3.7	2.5	2.7	2.3
M30	31.0	31.6	31.0	60.0	60.0	59.0	4.0	4.3	3.7	2.5	2.7	2.3
M33	34.0	34.6	34.0	66.0	66.0	65.0	5.0	5.6	4.4	3.0	3.3	2.7
M36	37.0	37.6	37.0	72.0	72.0	71.0	5.0	5.6	4.4	3.0	3.3	2.7

Other types of Washers

Penny Washers (Mudguard / Repair) Plated

Materials Mild Steel 20mm od (RSR CODE 0390) Mild Steel 25mm od (RSR CODE 0391)

 Mild Steel
 32mm od
 (RSR CODE 0392)

 Mild Steel
 38mm od
 (RSR CODE 0393)

 Mild Steel
 50mm od
 (RSR CODE 0394)

Finish; Self Colour, Bright Zinc Plated (standard), Galvanised,

Sherardized, Zinc & Yellow Passivate.



	M5	M6	M8	M10	M12
20mm	•	•			
25mm	•	•	•	•	
30mm		•	•	•	
40mm		•	•	•	•
50mm		•	•	•	•

Single Coil Spring Washers DIN7980

Materials Square Section Steel (RSR CODE 0361)

Rectangular Section Steel (RSR CODE 0368)

Square Section Stainless (RSR CODE 0362) Rectangular Section Stainless (RSR CODE 0369)

Finish; Self Colour, Bright Zinc Plated (standard), Galvanised,

Sherardized, Zinc & Yellow Passivate.



Double Coil Spring Washers

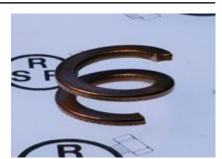
Materials Double Coil Square Section (RSR CODE 0364)

Double Coil Rect Section
Double Coil Phos Bronze
Double Coil Stainless

(RSR CODE 0369)
(RSR CODE 0366)
(RSR CODE 0365)

Finish; Self Colour, Bright Zinc Plated (standard), Galvanised,

Sherardized, Zinc & Yellow Passivate.



Internal Shake Proof Washers DIN6797 J

Materials Steel (RSR CODE 0371)

Stainless Steel (RSR CODE 0373) Phosphor Bronze (RSR CODE 0329)

Finish Self Colour, Bright Zinc Plated (standard), Galvanised,

Sherardized, Zinc & Yellow Passivate.



External Shake Proof Washers DIN6797 A

Materials Steel (RSR CODE 0372)

Stainless Steel (RSR CODE 0374) Phosphor Bronze (RSR CODE 0330)

Finish Self Colour, Bright Zinc Plated (standard), Galvanised,

Sherardized, Zinc & Yellow Passivate.



CFS Chemical Dispensing System

The RAWL CFS is entirely cartridge free and easy to set up using:

RP30 POLYESTER RM50 POLYESTER STYRENE FREE RV200 VINYLESTER STYRENE FREE

The RAWL CFS is safe on site with no cutting or trimming required, simply insert the foil and pump.



RP30 Polyester Resin 300ml



DESCRIPTION	QUANTITY	PRODUCT CODE
4 FOILS & 4 NOZZLES	4 Pack	CFS-RP30-4
12 FOILS & 12 NOZZLES	12 Pack	CFS-RP30-12
24 FOILS	24 Pack	CFS-RP30-24

RM50 Polyester Styrene Free 300ml



DESCRIPTION	QUANTITY	PRODUCT CODE		
4 FOILS & 4 NOZZLES	4 Pack	CFS-RM50-4		
12 FOILS & 12 NOZZLES	12 Pack	CFS-RM50-12		
24 FOILS	24 Pack	CFS-RM50-24		

RV200 Vinylester Styrene Free Resin 300ml



DESCRIPTION	QUANTITY	PRODUCT CODE
4 FOILS & 4 NOZZLES	4 Pack	CFS-RV200-4
12 FOILS & 12 NOZZLES	12 Pack	CFS-RV200-12
24 FOILS	24 Pack	CFS-RV200-24

















Wedge Anchors



The Rawl Wedge Anchor is a steel internally threaded socket fixing, slotted at one end to allow for expansion. Suitable for the insertion of a bolt or stud. Expansion is achieved by driving down the steel wedge in the anchor using a setting tool. The Wedge Anchor becomes permanently fixed, which allows the bolt or stud to be removed without detriment to the fixing. Suitable for fixing cable trays, pipe runs, suspended ceilings and other mechanical and electrical services. Available in zinc plated steel and stainless steel grade 316 (A4). To be used in concrete only. Manual and Mechanical setting tools are available. Lipped version will be available.



Size Chart

						PRODUCT CODE				
THREAD SIZE	ANCHOR LENGTH (mm)	THREAD LENGTH (mm)	HOLE DIAMETER (mm)	(mm)	MAXINUM RECOMMENDED TORQUE (Nm) (Tinst)	ZINC PLATED	STAINLESS STEEL A4	MANUAL SETTING TOOL	MECHANICAL SETTING TOOL	
M6	25	11	8	27	4.5	77-108	77-608	77-208	77-209 (SDS+)	
M8	30	13	10	32	11	77-120	77-620	77-220	77-221 (SDS+)	
M10	40	15	12	42	22	77-132	77-632	77-232	77-233 (SDS+)	
M12	50	20	15	52	38	77-141	77-641	77-241	77-242 (SDS+)	
M16	65	25	20	67	95	77-150	77-650	77-250	77-251 (SDS MAX)	
M20	80	35	25	82	185	77-162	-	77-262	77-263 (SDS MAX)	

Size	Concrete, $f_{ck,cube} = 30 \text{N/mm}^2 \text{ (C20/25)}$										
	Characteristic Load (&N)		Design Resistance <i>(k:N)</i>		Recommended Load (kN)		Characteristic Edge Distance (mm)		Characteristic Spacing (mm)		
	Tension (N _{Rk)}	Shear (V _{Rk)}	Tension (N_{Rd})	Shear (V_{Rd})	Tension (N _{rec)}	Shear (V _{rec)}	Tension (C _{cr,N)}	Shear (C _{cr,V)}	Tension & Shear (S _{cr,N)} (S _{cr,V)}		
M6	7.9	4.3	3.7	2.4	3.1	2.0	80	80	90		
M8	9.5	7.5	4.4	4.1	3.7	3.4	90	90	110		
M10	15.9	11.8	7.4	6.6	6.2	5.5	120	120	140		
M12	20.3	17.2	9.4	9.6	7.8	8.0	160	160	170		
M16	31.8	32.0	14.7	17.8	12.3	14.8	220	220	250		
M20	43.1	49.9	20.0	27.7	16.7	23.1	250	250	300		

Setting Tools

Manual Setting Tool

SDS+ Setting Tool







Rawlbolts Bolt Projecting



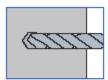
The Rawlbolt® Shield Anchor is the world's most popular, high quality torque controlled expanding shield anchor, combining ease of installation with good load carrying capacity. The Rawlbolt is the ideal general purpose anchor bolt having higher degrees of expansion than other types of expansion anchor and excellent tolerance to variations in hole sizes. The collapsible ferrule ensures positive

clamping force is transmitted to the fixture. Available in zinc plated yellow passivated steel in loose bolt, and bolt projecting versions. Please note that the performance data for the Rawlbolt is based on a 5.8 grade bolt.

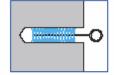
Size Chart

REFERENCE	BOLT	BOLT	SHILID	FIXTURE 1			AMETER In)				HINDED I (Nm)	
ALT DEGIVE	81 ZE	LENGTH (mm)	LENGTH (n.m)	HAXINUH (mm) (T _{flx})	MINIMUM (mm) (T _{flx})	ih structuri (d _f)	in fixture	HINIMUM HOLE DIPTH (n:n) (b _O)	MINIMUM SUBSTRATI THICKNESS (mm) (bmin)		20.5N/mm² CONCRETE (Hm) (T _{USS})	PRODUCT CODE
M6 10P M6 25P M6 60P	M6	65 80 115	45	10 25 60	0	12	6.5	50	70	6.5	5.0	44-505 44-510 44-515
M8 10P M8 25P M8 60P	M8	75 90 125	50	10 25 60	0	14	9.0	55	80	15	7.5	44-555 44-560 44-565
M10 15P M10 30P M10 60P	M10	90 105 135	60	15 30 60	0	16	11	65	100	27	13	44-605 44-610 44-615
M12 15P M12 30P M12 75P	M12	110 125 170	75	15 30 75	0	20	13	85	120	50	23	44-655 44-660 44-665
M16 15P M16 35P M16 75P	M16	150 170 210	115	15 35 75	0 10 35	25	17	125	190	120	-	44-705 44-710 44-715
M20 15P M20 30P M20 100P	M20	170 185 255	130	15 30 100	0 10 30	32	22	140	220	230	-	44-755 44-760 44-765
M24 75P M24 120P	M24	255 300	150	75 120	0 75	38	26	160	240	400	-	44-805 44-810

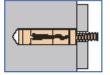
Installation



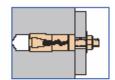
 Drill a hole of required diameter and depth. Note: When fixing into brickwork, mortar joints should be avoided.



 Remove debris and thoroughly dean hole with brush and pump.



Insert the shield.



 Position fixture and insert bolt. Tighten to recommended torque.

Specification Data

				Cone	rete, $f_{ck,\alpha}$	и <i>be</i> = 301	N/mm² (C20,	/25)		Brickwork = 20.5N/mm ²
Size	Charad Load		Des Resista:	ign nce <i>(kN)</i>	Recomm Load	nended (kN)		teristic ince <i>(mm)</i>	Characteristic Spacing (mm)	Recommended Load (ÆV)
	Tension (N _{Rk)}	Shear (V _{Rk)}	Tension (N_{Rd})	Shear (V_{Rd})	$_{(N_{rec)}}^{\rm Tension}$	Shear (V _{rec)}	Tension $(C_{c_{\mathcal{R}}N)}$	Shear (C _{cr,V)}	Tension & Shear $(S_{cr,N)}$ $(S_{cr,V)}$	Tension & Shear (N_{rec}) (V_{rec})
M6	9.6	8.2	4.5	4.5	3.8	3.8	80	100	120	1.8
M8	12.1	12.8	5.6	7.1	4.7	5.9	100	120	150	2.3
M10	16.7	20.9	7.7	11.6	6.4	9.7	120	160	180	2.9
M12	24.6	30.5	11.4	16.9	9.5	14.1	160	180	250	4.3
M16	57.4	55.3	26.6	30.7	22.2	25.6	190	260	290	Doller about \$412 are not
M20	79.4	88.1	36.8	48.9	30.7	40.8	250 300		330	Bolts above M12 are not recommended in brickwork
M24	99.0	122.8	45.8	68.2	38.2	56.8	280	350	420	recommended in breework

Rawlbolts Loose Bolt





Features

- 1. Bolt lengths suitable fixture thickness up 150mm.
- 2. Ferrule marked with diameter for correct installation.
- 3. Pressed steel segments ensure consistent dimensional accuracy.
- 4. Optimum taper nut for maximum expansion all substrates.

DESCRIPTION

World's most popular expanding shield anchor. Easy to use with good load carrying capacity. Ideal general purpose anchor bolt with excellent tolerance to variation in hole size. The collapsible ferrule ensures positive clamping force is transmitted to the fixture. Suitable for use in: Concrete, Brickwork, Stone.

Size Chart

RIFERINCE	BOIL	BOLT	SHIILD	FIXTURE 1			AMETER III)	инини	жиниж	TO	IMENDID RQUE Hm)	PRODUCT
	81 ZE	(mm)	LENGTH (mm)	иахінин (mm) (T _{flx})	иппии (пп) (T _{flx})	IN FIXTURE (d_f)	ih substrati (d _O)	HOLE DIPTH (nm) (b _O)	SUBSTRATE THICKNESS (mm) (bmin)	(Т ₁ 30 н/пи п²	20.5N/mm² BRICKWORK	CODE
M6 10L M6 25L M6 40L	М6	55 70 85	45	10 25 40	0	6.5	12	50	70	6.5	5.0	44-015 44-020 44-025
M8 10L M8 25L M8 40L	M8	65 80 95	50	10 25 40	0	9.0	14	55	80	15	7.5	44-055 44-060 44-065
M10 10L M10 25L M10 50L M10 75L	M 10	75 90 115 140	60	10 25 50 75	0	11	16	65	100	27	13	44-105 44-110 44-115 44-120
M12 10L M12 25L M12 40L M12 60L	M 12	90 105 120 140	75	10 25 40 60	0	13	20	85	120	50	23	44-155 44-160 44-165 44-170
M16 15L M16 30L M16 60L	M 16	135 150 180	115	15 30 60	0 10 30	17	25	125	190	120	-	44-205 44-210 44-215
M20 60L M20 100L	M20	195 235	130	60 100	25 60	22	32	140	220	230	-	44-255 44-260
M24 100L M24 150L	M24	255 300	150	100 150	25 100	26	38	160	240	400	-	44-305 44-310

Specification Data

				Cone	rete, $f_{ck,\alpha}$	_{stbe} = 301	N/mm² (C20,	/25)		Brickwork = 20.5N/mm ²
Size	Charad Load		Design Resistance (kN)		Recommended Load (kN)		Characteristic Edge Distance (mm)		Characteristic Spacing (mm)	Recommended Load (ÆV)
	Tension (N _{Rk)}	Tension Shear Tension		Shear (V_{Rd})	Tension (N_{rec})	Shear (V _{rec)}	Tension $(C_{c \in N})$	Shear (C _{cr,V)}	Tension & Shear $(S_{cr,N)}$ $(S_{cr,V)}$	Tension & Shear (N_{rec}) (V_{rec})
M6	9.6	8.2	4.5	4.5	3.8	3.8	80	100	120	1.8
M8	12.1	12.8	5.6	7.1	4.7	5.9	100	120	150	2.3
M10	16.7	20.9	7.7	11.6	6.4	9.7	120	160	180	2.9
M12	24.6	30.5	11.4	16.9	9.5	14.1	160	180	250	4.3
M16	57.4	55.3	26.6	30.7	22.2	25.6	190	260	290	Dollar about \$443 are not
M20	79.4	88.1 36.8 48.9		48.9	30.7	40.8	250 300		330	Bolts above M12 are not recommended in brickwork
M24	99.0	122.8	45.8	68.2	38.2	56.8	280	350	420	recommended in breasy ork



Eyebolts



REFERENCE	BOLT SIZE (d)	SHIILD LENGTH (mm)	OVIRALL LENGTE (mm)	BOLE DIAMETIR IN STRUCTURE (mm) (d _O)	MINIMUM BOLE DEPTE (mm)	APPROXIMATE DIAMITER IN EYE (mm)	RECOMMENDED TORQUI FOR 30N/mm ² COHCRETI (Nm) (T _{INST})	PRODUCT CODI
M6E	M6	45	73	12	50	10	6.5	44-432
M8E	M8	50	87	14	55	12	15	44-437
M 10E	M10	60	108	16	65	14	27	44-442
M12E	M12	75	130	20	85	17	50	44-447

Hook Bolts



REFERENCE	BOLT SIZE (d)	SHIILD LENGTH (mm)	OVERALL LENGTE (mm)	BOLE DIAMETIR IN STRUCTURE (mm) (d _O)	MINIMUM BOLE (mm)	APPROXIMATE DIAMETIR IN HOOK (mm) (H)	RECOMMENDID TORQUI FOR 3 ON/mm ² COHCRETE (Nm) (T _{INSt})	PRODUCT CODI
M6H	M6	45	83	12	50	8	6.5	44-401
M8H	M8	50	98	14	55	10	15	44-406
M10H	M10	60	120	16	65	12	27	44-411
M12H	M12	75	145	20	85	16	50	44-416

Lipped Wedge Anchor

DESCRIPTION

The Lipped Wedge Anchor provides an easy to install fixing. Allows for bolts and studs to be installed and removed without damaging the anchor. Install with manual setting tool or mechanical setting tool for use with hammer action drilling machines. Suitable for use in:

Concrete Stone

							PRODUCT CODE	
THREAD SIZI	ANCHOR LENGTH (mm)	THREAD LENGTH (mm)	HOLE DIAMITER (nim)	(n.m)	MAXIMUM RICOMMENDED TORQUE (Rm) (T _{USS})	ZIHC PLATID	MANUAL SETTING TOOL	MECHANICAL SITTING TOOL
M6	25	11	8	27	4.5	77-908	77-208	77-209 (SDS+)
M8	30	13	10	32	11	77-920	77-220	77-221 (SDS+)
M10	40	15	12	42	22	77-932	77-232	77-233 (SDS+)
M12	50	20	15	52	38	77-941	77-241	77-242 (SDS+)
M16	65	25	20	67	95	77-950	77-250	77-251 (SDS MAX)

Throughbolts RSPT





Features

- 1. Embedment depth markings to ensure correct installation.
- 2. Cold formed body ensures constant dimensional accuracy.
- 3. Optimum cone angle for controlled expansion.
- 4. Tested and approved by the independent UK and international approval bodies.

DESCRIPTION

The RAWL® Throughbolt range has been developed to meet the changing demands of the market in terms of product approval levels, ease of fixing and product quality.

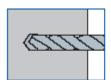
The versatile through fixing for use in a wide range of applications in concrete of 20N/mm2 and over.

Available in: Zinc plated steel, Hot dip galvanised, Stainless steel grade A4.

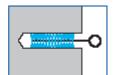
Suitable for use in: Concrete.

Size Chart

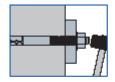
BOLT	BOLT	WASHER	THREAD	HOLE	STAN EMBE	DARD DHENT		DCED DMENT		PRODUCT CODI		
SIZI/HOLE IN CONCRITE (d) (do)	LENGTH (mm)	DIAMITER (mm)	LENGTH (mm)	DIAMETER IN FIXTURI (mm) (df)	MINIMUM BOLE DEPTH (mm) (h _o)	MAXIMUM FIXTURE THICKNESS (n.m) (T _{fix})	MINIMUM BOLE DIPTH (mm) (h ₀)	MAXIMUM FIXTURI THICKNESS (mm) (T _{fix})	REC. TORQUE (Nm) (T _{inst})	ZING PLATID	HOT DIP GALVANISED	STAINLESS STIIL GRADI 316 (A4)
M6 6mm	55 70 85	12.5	25 25 25	6.5	50 50	12 26	30 30	18 32 46	5	56-104 56-108 56-110	x x	56-610
M8 8mm	50 85 80 95 105 115	17	14 25 40 55 25 75	9	- 55 55 55 55	- 15 30 40 50	40 40 40 40 40 40	5 15 30 45 55 65	15	58-114 58-118 58-120 58-122 58-125	56-814 56-816 56-820 56-822 56-825	56-816 56-820 56-824
M10 10mm	65 80 95 115 130	21	21 30 45 65 80	11	60 60 60 60	7 22 42 57	50 50 50 50 50	5 16 32 52 67	25	56-129 56-128 56-132 56-136 56-138	56-829 56-828 56-832 56-836 56-838	56-628 56-632 56-636 56-638
M12 12mm	80 100 120 135 150 180 220	24	30 40 60 75 90 100 120	13	80 80 80 80 80	- 4 24 39 54 84 124	60 60 60 60 60 60	5 24 44 58 75 105 145	45	56-139 56-140 56-144 56-148 56-150 56-147 56-149	56-839 56-840 56-844 56-848 56-850 56-847	56-640 56-644 56-648 56-650
M16 16mm	90 105 140 180 220	30	32 55 60 100 140	18	100 100 100	20 60 100	50 80 80 80 80	20 25 40 80 120	110	56-154 56-153 56-152 56-156 56-158	* 56-853 56-852 56-856 56-858	56-651 56-652 56-656 56-658
M20 20mm	125 160 200 300	37	65 65 100 100	22	120 120 120 120	20 60 160	100 100 100 100	5 40 80 180	180	56-159 56-160 56-164 56-166	56-859 56-860 56-864	56-659 56-660 56-664 56-666
M24 24mm	180 260	44	65 65	26	135 135	20 100	120 120	35 115	320	56-168 56-172	* 56-872	* 56-672



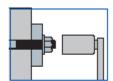
 Drill a hole of required diameter and depth.



Remove debris and thoroughly clean hole with brush and pump.



 Lightly tap the throughbolt through the fixture into hole with a hammer, until fixing depth is reached.



4. Tighten to the recommended torque.



Throughbolts RSPT

Specification Data

						Con	ncrete, $f_{ck,ca,be} = 30 \text{N/mm}^2 \text{ (C20/25)}$									
		Standa	ard Emb	edment	Depth			Reduc	ed Embe	edment	Depth		Characteristic		Characteristic	
Size	Loan (kit) Ite			Design Recomm Resistance (&V) Load (ended Characteristic kN) Load (kN)		Design Resistance (kN)		Recommended Load (kN)		-	istance <i>mı)</i>	Spacing (mm)	
	Tension (N _{Rk)}	Shear (V _{Bk)}	Tension (N _{Rd)}		Tension (N _{rec)}		Tension (N _{Rk)}	Shear (V _{Rk)}	Tension (N _{Rd)}	Shear (V_{Rd})	Tension (N _{rec)}		Tension (C_{c_RN})		Tension & Shear $(S_{c\eta,N})$ $(S_{c\eta,V})$	
M6	6.8	7.1	3.1	3.9	2.6	3.3	4.5	4.7	2.1	2.6	1.8	2.2	60	60	80	
M8	10.5	13.6	4.9	7.5	4.1	6.3	8.5	10.1	4.0	5.6	3.3	4.7	80	80	100	
M10	15.1	18.4	7.0	10.2	5.8	8.5	10.7	15.3	5.0	8.5	4.2	7.1	100	100	120	
M12	23.7	26.6	11.0	14.8	9.2	12.3	15.0	22.9	7.0	12.7	5.8	10.6	120	120	150	
M16	36.6	50.3	17.0	28.0	14.2	23.3	23.0	42.5	10.7	23.6	8.9	19.7	160	160	180	
M20	45.7	73.3	21.2	40.7	17.7	33.9	38.0	63.2	17.6	35.1	14.7	29.3	190	190	260	
M24	52.8	94.5	24.4	52.5	20.3	43.8	48.9	87.2	22.7	48.4	18.9	40.3	250	250	300	

Reduction Factors - Edge and Spacing Distances for Rawl® R-SPT The full characteristic edge and spacing distances shown in the table above are the minimum allowable for the quoted DESIGN RESISTANCE or RECOMMENDED LOAD, depending on your design method.

Where these dimensions are not achievable, the

appropriate reduction factor/s from the tables below must be applied to the DESIGN RESISTANCE or RECOMMENDED LOAD.

Choose the required bolt diameter across the top of the appropriate table and read down the left hand column until actual edge or spacing distance is found.

Read off the reduction factor where the two lines intersect (interpolate as required). Multiply this factor by the DESIGN RESISTANCE or RECOMMENDED LOAD quoted in the table.

On the occasion that multiple close edge and/or spacing distances occur, the appropriate reduction factors must be applied.

Metal Self Drive Plasterboard Fixings

DESCRIPTION

No drill required—simply pierce paper skin and screw home. Can be used in single and double thickness plasterboard. Ideal for use with either a power or standard Pozi Drive screwdriver.

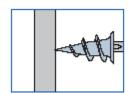
Must only be used with screws provided.

Suitable for use in: Plasterboard. Features

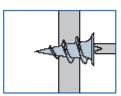
- 1. Flange prevents accidental push through in plasterboard.
- 2. Short length ideally suited



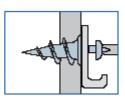
MATERIAL	RECOMMENDED LOAD
Plasterboard 9.5mm	6kg
Plasterboard 12.5mm	8kg



 Position the fixture and mark out holes.
 Using a No. 2 Pozi Driv screwdriver or screwdriver bit, push firmly into the board until thread engages.



 Maintaining a firm pressure, screw in fixing until flush with the base material.



 Place fixture in position, insert screw and tighten until secure.

Safety Plus Loose Bolt







DESCRIPTION

SafetyPlus[™] is an all steel high performance expansion anchor, suitable for the most demanding safety critical applications. This range offers

exceptional tension, shear and combined load performance in concrete.

Suitable for use in: Concrete.

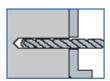
Features

- 1. 8.8 grade bolt.
- 2. High strength steel washer.
- 3. Integral controlled collapse and anti-rotation feature ensures fixture is firmly secured.
- 4. Unique zig-zag feature provides balanced expansion ensuring secure setting and maximum load carrying capacity.
- 5. Case-hardened nut with optimum angle taper for maximum expansion.

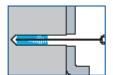
Size Chart

BOLT SIZE	OLT SIZE BOLT LINGTE WASHER (mm) DIAMITE		нахінин	HOLE DI	AMETER	MINIMUM BOLE DEPTH	MINIMUM SUBSTRATI	RECOMMINDED TORQUI	PRODUCT CODE
	(mm)	(mm)	FIXTURE THICKNISS (mm)	IN FIXTURE IN CONCRETI		IH CONCRETE (mm)	THICKNESS (mm)	(Nm)	ZINC PLATED
(d)	Ø	(w)	(T_{fix})	(d_f)	(d ₀)	(b ₀)	(b _{min})	(T _{inst})	
M8	90 110	21	15 40	14	12	80	120	25	50-010 50-015
M10	105 120 140	24	20 40 60	17	15	90	140	50	50-020 50-025 50-030
M12	120 150 170	30	25 50 70	20	18	105	160	80	50-035 50-040 50-045
M16	145 170	40	25 50	26	24	125	200	180	50-050 50-055
M20	175	50	30	30	28	155	240	275	50-065

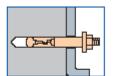
Installation



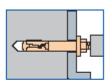
 Drill a hole of required diameter and depth through clearance hole in the fixture into concrete.



Remove debris and thoroughly dean hole.



 Insert SafetyPlus™ anchor through fixture into hole and tap home.



4. Tighten to the recommended torque.

Specification Data

				Concret	te, f _{ck,cube} =	30N/mm² (0	20/25)			
	<i>e</i> 1			edment Dept		1-1	Charac Edge D	teristic istance	Characteristic Spacing	
Size		teristic (kN)		ign Recommended ice (ÆV) Load (ÆV)			(m		(mm)	
	Tension (N _{Rk)}	Shear (V _{RA)}	Tension (N_{Rd})			Shear (V_{rec})	Tension (C _{cr,N)}	Shear (C _{cgV)}	Tension & Shear $(S_{cr,N)} (S_{cr,V})$	
M8	19.7	25.7	9.1	14.3	7.6	11.9	160	160	180	
M10	33.3	39.7	15.4	22.0	12.8	18.3	180	180	220	
M12	43.4	56.5	20.1	31.4	16.8	26.2	200	200	260	
M16	66.8 90.1 30.9 50.1				25.8	41.8	280	280	340	
M20	95.6 132.0 44.3 73.3				36.9	61.1	320	320	380	





DESCRIPTION

SafetyPlus™ is an all steel high performance expansion anchor, suitable for the most demanding safety critical applications. This range offers exceptional tension, shear and combined load performance in concrete.

Suitable for use in:

Concrete.

Safety Plus Bolt Projecting

Features

- 1. 8.8 grade stud with slot for final adjustment.
- 2. High strength steel washer.
- 3. Sleeve provides maximum shear load performance.4. Integral controlled collapse
- and anti-rotation feature ensures fixture is firmly secured.
 5. Unique zig-zag feature provides balanced
- expansion ensuring secure setting and maximum load carrying capacity.
- 6. Case-hardened nut with optimum angle taper for maximum expansion.
- 7. Nut and washer allow for fixture to be removed and relocated easily.

Size Chart

BOLT SIZI	BOLT SIZI BOLT LINGTE (mm)		MAXIMUM FIXTURE	HOLE DI	AMETIR	MINIMUM BOLE DEPTH	MINIMUM SURSTRATE	RECOMMENDED TOROUE	PRODUCT CODE
(d)	() (I)	(mm)	THICKNESS (mm)	IN FIXTURE (n.m) (dp)	IN CONCRITE (nm) (d _O)	IN CONCRETE (m.m)	THICKNESS (mm)	(Hn)	ZINC PLATID
			1 7200			. 0	· mane	· mgr	
M8	95	21	15	14	12	80	120	25	50-110
M10	110 130	24	20 40	17	15	90	140	50	50-120 50-125
M12	135 160	30	25 50	20	18	105	160	80	50-135 50-140
M16	160 185	40	25 50	26	24	125	200	180	50-150 50-155
M20	190	50	30	30	28	155	240	275	50-165

Reduction Factors - Edge and Spacing Distances For SafetyPlus™ Bolt Projecting

The full characteristic edge and spacing distances shown in the table above are the minimum allowable for the quoted DESIGN

RESISTANCE or RECOMMENDED LOAD, depending on your design method. Where these dimensions are not achievable, the appropriate reduction factor/s from the tables below must be applied to the

DESIGN RESISTANCE or RECOMMENDED LOAD.

Choose the required bolt diameter across the top of the appropriate table and read down the left hand column until actual edge or spacing distance is found. Read off the reduction factor where the two lines intersect (interpolate as required). Multiply this factor by the DESIGN RESISTANCE or RECOMMENDED LOAD quoted in the table. On the occasion that multiple close edge and/or spacing distances occur, the appropriate reduction factors must be applied.

Specification Data

				Concret	te, f _{ck,cube} =	30N/mm² (0	20/25)			
		S	tandard Emb	edment Dept	Charac		Characteristic			
Size	Size Characterist Load (kN)			sign nce <i>(l</i> &V)		nended (ÆN)	Edge D	istance m)	Spacing (mm)	
	Tension (N _{Rk)}	Shear (V _{RA)}	Tension (N_{Rd})	Shear (V_{Rd})	Tension (N _{rec)}	Shear (V_{rec})	Tension (C _{cr,N)}	Shear (C _{cgV)}	Tension & Shear $(S_{cr,N)}, (S_{cr,V})$	
M8	19.7	25.7	9.1	14.3	7.6	11.9	160	160	180	
M10	33.3	39.7	15.4	22.0	12.8	18.3	180	180	220	
M12	43.4	56.5	20.1	31.4	16.8	26.2	200	200	260	
M16	66.8	90.1	30.9	50.1	25.8	41.8	280	280	340	
M20	95.6 132.0 44.3			73.3	36.9	61.1	320	320	380	

RKF2 Resin





DESCRIPTION

R-KF2 and R-KSF are General purpose resins, for solid and hollow structures with both products having a relatively short cure time. Suitable for use in: Concrete Brickwork Blockwork.

Features

- 1. Suitable for Solid and Hollow substrates. 2. 150ml K-KSF is ideal for small applications.
- 3. R-KSF fits a standard mastic gun. 4. R-KSF Odourless

R-KF2

BASE MATER TEMPERATURE	CEL TIM	E CURE TIME
30	4 mins	30 mins
25	7 mins	60 mins
15	15 mins	120 mins
5	30 mins	180 mins

R-KSF

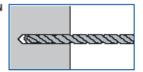
BASE MATERIAL TEMPERATURE (°C)	GEL TIME	CURE TIME
30	4 mins	30 mins
20	8 mins	50 mins
15	14 mins	120 mins
5	30 mins	250 mins

Size Chart

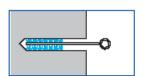
Stud Thread Size (mm)	LEN	VIRALL IGTH I) (I)	WASHER DIAMETER (mm) (w)	THIC	FIXTURI KNESS (T _{flx)}	HOLE DIAMITER IN CONCRETE	HOLI DIAMITER IN FIXTURE	STANDARD EMBEDMINT IN CONCRETE			TORQUE (Nm) (T _{ingl}) STAINL		OF HOLIS PER 450ML	
(d)						(mm) (d _{o)}	(mm)	(mm)	IN	IN IN		STEEL GRADE		
	BZP	ST.ST		BZP	SEST	(00)	(d _f)	(b ₀)	CONCRETE	BRICKWOLK	PLATED	303 A2	380/m/	150m/
M8	1	10	17	1	7	10	9	80	3	2	60-708	60-906	84	33
M10	13	30	21	2	8	12	11	90	9	6	60-710	60-911	61	24
M12	10	60	24	3	6	14	13	110	17	11	60-712	60-916	42	16
M16	19	90	30	4	2	18	17	125	36	24	60-716	60-921	28	11
M20	260	240	37	90	70	24	22	145	53	-	60-720	60-926	7	3
M24	29	95	44	8	5	28	26	180	60	-	60-724	60-931	6	2

Installation

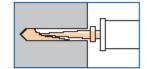
INSTALLATION Solid substrates



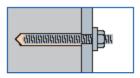
1. Drill hole to correct diameter and depth for stud size being used.



2. Thoroughly clean hole using brush or air,



3. Insert cartridge into cartridge gun and attach nozzle. Dispense to waste until an even colour and then pump into hole.

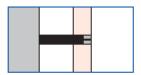


4. Insert stud or socket with a twisting action. Leave the anchor undisturbed until the resin has cured and then attach fixture.

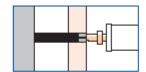
INSTALLATION Hollow substrates & substrates with voids



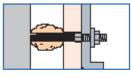
1. Drill hole to correct diameter and depth for mesh sleeve size being used.



2. Insert sleeve into hole.



3. Insert cartridge into cartridge gun and attach nozzle. Dispense to waste until even colour. Then insert nozzle and pump to fill sleeve.



4. Insert stud or socket with a twisting action. Leave the anchor undisturbed until the resin has set and then attach fixture.



R-KEA Resin



DESCRIPTION

R-KEA is specially formulated epoxy acrylate/Vinyl Ester resin, which offers protection in damp and corrosive applications, as well as giving high loads in concrete.

Suitable for use in:
Concrete.

Features

- 1. Easy to extrude.
- 2. Short Gel and Cure times.
- 3. Ideal for close edge and spacing applications.

Typical applications

Starter Bar Barriers in marine environments Safety barriers Roadside signage.

Curing Times

BASE MATERIAL TEMPERATURE (°C)	GEL TIME	CURE TIME
30	3 mins	20 mins
25	5 mins	30 mins
15	10 mins	60 mins
5	20 mins	120 mins

Not suitable for overhead applications.

Size Chart

Stud Thread Size	(mm) (l)		WASHIR DIAMETER	MAXIMUM FIXTURE TRICKNISS		HOLE DIAMETIR IN CONCRETI	HOLE DIAMETER IN FIXTURE (num)	STANDARD IMBEDMENT IN CONCRETE	RICOMMENDED TORQUE	STUD PROD	UCT CODES	APPROX Ho. OF HOLES PER 380ML
(mm) (d)			(mm) (w)	(mm) (T _{fix)}		(mm) (d _o)	(d _f)	(mm) (h _{e)}	(Mm) (T _{isst)}		STAINLESS	CARTRIDGE
	BZP	87.87		BZP	STST	. ",		. ,		ZINC PLATED	STEEL GRADE 303 A2	
M8	11	10	17	17	17	10	9	80	11	60-708	60-906	84
M10	13	30	21	28	28	12	11	90	22	60-710	60-911	61
M12	16	50	24	36	36	14	13	110	38	60-712	60-916	42
M16	19	90	30	42	42	18	17	125	95	60-716	60-921	28
M20	260	240	37	90	70	24	22	145	150	60-720	60-926	7
M24	29	95	44	85	85	28	26	180	200	60-724	60-931	6

The specification of longer studs will allow greater fixture thicknesses than shown for the standard studs quoted, minimum embedment should be observed. Hole depths in table are typical but due to the consistency of the product deeper embedment depths applications can be considered. We recommend that for embedment above 500mm and 20mm in diameter, a power operated resin gun should be used. Please contact the Rawl Technical Advisory Service for further advice.

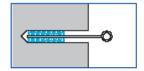
Specification Data

		Concrete, $f_{ck,cube} = 30 \text{N/mm}^2 \text{ (C20/25)}$												
Size	Characteristic Resistance (kN)			tign nce <i>(kN)</i>		mended (ÆV)	Character Distanc	istic Edge e <i>(mm)</i>	Characteristic Spacing (mm)					
	Tension (N _{Rk)}	Shear (V _{Rk)}	Tension (N_{Rd})	Shear (V_{Rd})	Tension (N_{rec})	Shear (V_{Rec})	Tension (C _{cr,N)}	Shear $(C_{cr,V})$	Tension & Shear $(S_{cr)}$					
M8	14.3	9.9	6.3	7.9	4.5	5.7	80	100	100					
M10	22.4	15.7	9.6	12.6	6.9	9.0	90	130	130					
M12	30.6	22.9	12.4	18.3	8.9	13.1	110	150	150					
M16	48.7	42.5	19.4	34.0	13.9	24.3	130	170	170					
M20	67.1	66.8	25.2	53.4	18.0	38.2	150	190	210					
M24	81.7 95.7		28.2	76.6	20.1	54.7	190	240	240					

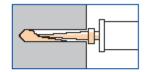
INSTALLATION Solid substrates



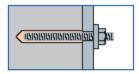
 Drill hole to correct diameter and depth for stud size being used.



2. Thoroughly dean hole using brush or air,



 Insert cartridge into cartridge gun and attach nozzle. Dispense to waste until an even colour and then pump into hole.



 Insert stud or socket with a twisting action. Leave the anchor undisturbed until the resin has cured and then attach fixture.











Tremsil 300 is a one component gun grade moisture cured silicone sealant that cures rapidly to form a permanently flexible and extremely durable weathertight seal.

Typical Uses Tremsil 300 can be used to seal all classical glazing joints including cap beads, shop windows, display cases, etc. It can be used in the installation of conservatories and greenhouses, door and window frames, cladding and curtain wall construction. Some other applications are during the manufacture of portable buildings, caravans and containers and fabrication of heating, ventilation and air conditioning (HVAC) ducting.

Tremsil 250 cures rapidly to form a permanently flexible and watertight seal where hygiene is a priority.

Typical Uses
Tremsil 250 is suitable for
food preparation areas, refrigeration, foodstuff transport. It can be used in hygiene critical areas, hygienic
cladding, potable water storage and delivery, cills and
marine and automotive
manufacture.

Tremsil 500 cures to produce a flexible low modulus elastomeric seal.

Typical Uses
Tremsil 500 is suitable for:
Expansion joints & curtain
walls Perimeter joints around
windows or doors
Panel joints between most
common substrates
Heel and toe beads
Plycarbonate glazing

Webbseal LMA is a low to mid modulus acetoxy curing silicone sealant that cures rapidly to form a permanently flexible, weather tight rubber seal with good adhesion to glass and glazed surfaces as well as some metals and plastics.

Typical Uses
Webbseal LMA is suitable for
low to moderate movement
sealing applications such as
standard and butt glazing of
frames, panels, shop fronts,
curtain walling and sealing
and draught proofing of glass
and metal assemblies and the
perimeter sealing of door and
window frames. White and
translucent are suitable for
use in kitchens and bathrooms.











Tremsil 200 cures rapidly to form a permanently flexible and extremely durable watertight seal for multi-purpose glazing applications.

Typical Uses Tremsil 200 is suitable for all common glazing joints, windows, display cases, etc., as well as conservatories and greenhouses. Tremsil 600 cures rapidly to form a permanently flexible and extremely durable watertight seal for perimeter caulking applications.

Typical Uses
Tremsil 600 is designed for sealing: Window and door perimeters. Display cases, shopfronts, etc. Conservatories and greenhouses General purpose sealing in building façades Sanitary applications It is compatible with polycarbonate.

Webbseal HMA cures rapidly on exposure to atmospheric humidity to form a permanently flexible and extremely durable weather tight high modulus seal. It should be used on low movement applications and will have good adhesion to a range of construction materials including glass and glazed surfaces as well as some metals and plastics. White and translucent contain a fungicide that is resistant to mould growth when used in kitchens and bathrooms.

Typical Uses
Webbseal HMA is suitable for
low movement sealing applications such as standard and butt
glazing of frames, panels, shop
fronts, curtain walling and sealing
and draught proofing of glass
and metal assemblies. White and
translucent colours contain a
fungicide that makes the product
resistant to mould / mildew
growth.

Webbseal LMN is an economic low modulus, neutral curing silicone sealant that cures rapidly to form a permanently flexible, highly elastic, durable weatherseal. It is noncorrosive and bonds well to most construction materials without the need to prime.

Typical Uses
Webbseal LMN is suitable
for use in many demanding sealing applications
such as the perimeter
sealing of PVCu window
and door frames. White
and translucent are suitable for use in kitchens
and bathrooms. Being
neutral cure, it is chemically compatible with most
construction materials.

SIROFLEX Silicones and Mastics

SX GLAZING SILICONE

DESCRIPTION

A top quality acetoxy curing silicone developed specifically for glazing applications.

USES

For general purpose applications where adhesion to non-porous surfaces is required such as those in glazing. Tack free within minutes; 2mm cures within 24 hours to form a tough elastic rubber seal. Typical uses include: top sealing in glazing, sealing metal cladding and curtain walling, sealing in refrigeration stores, sealing around worktops. Temperature resistant between -50C and +180C. Accommodates movement of + or - 25%. Conforms to BS5889 (B) ISO 11.600 G20 LM Construction.

COLOUR AVAILABILITY

310ml cartridge Colours: White, Clear, Brown, Black, Grey and Bronze Packed



SX BATH & SANITARY SILICONE

DESCRIPTION

An acetoxy curing silicone containing anti-fungal compounds to prevent mould growth in areas subject to high humidity levels.

USES

For sealing around baths, showers, basins and all sanitary ware. Provides a long lasting, flexible watertight seal that is ideal for domestic or municipal applications. Adheres to many non-porous surfaces. Conforms to BS5889 (B) and ISO 11.600 G20 LM Construction.

COLOUR AVAILABILITY

310ml cartridge Colours: White and Clear

SX UNIVERSAL SILICONE

DESCRIPTION

A high modulus premium quality silicone that cures quickly to provide a permanently flexible rubber seal. Conforms to BS5889(B).

<u>USES</u>

For a wide range of building, glazing and household applications such as weather sealing around window and door frames, sealing around worktops and top sealing in glazing applications. Accommodates movement of + or - 25%

COLOUR AVAILABILITY

Standard cartridge Colours: White, Clear and Brown

SIROFLEX Silicones and Mastics

SX PAINTERS CAULK-IT

DESCRIPTION

A flexible water based filler and sealant that is easy to apply, dries quickly and can be overpainted after only 1-2 hours.

<u>USES</u>

For the sealing and filling of gaps and cracks where movement can occur, such as those between plasterwork and window frames, door frames, skirting boards and architraves. Use prior to painting or wall papering to fill cracks which will prevent them from developing later.

COLOUR AVAILABILITY

310ml cartridge Colour: White 400ml cartridge Colours: White and Brown



SX POLYSULPHIDE SEALANT

DESCRIPTION

A one part polysulphide sealant designed to seal joints subject to movement where a tough, flexible, watertight seal is required.

USES

Ideal for pointing and glazing. This product is easy to apply and has good adhesion to most building substrates. Has excellent durability and is paintable with alkydresin paints

COLOUR AVAILABILITY

400ml cartridge Colours: White, Brown, Black, Grey and Buff

SX ALL WEATHER SEALANT

DESCRIPTION

A universal co-polymer sealant that can be used for a wide range of sealing and weatherproofing applications around the home and in industry. Can be applied in wet weather.

<u>USES</u>

Provides a superior adhesion to most surfaces including difficult ones such as bitumen, asphalt, and zinc. Can be used in building, glazing, roofing and ductwork applications and for emergency repairs in wet weather. Over paintable with most paints and stains.

COLOUR AVAILABILITY

310ml cartridge Colours: White, Clear, Brown, Black and Grey

Webb Foams & Cleaners







WEBBCLEAN INDUSTRIAL GLASS CLEANER

Fast evaporating solvent solution removes dirt from glass surfaces leaving a sparkling finish. PACKED IN: 1 litre bottles x 12 per

WEBBCLEAN PVCU CREAM CLEANER

Mildly abrasive cleaner for PVCu window and door frames laminatesand other plastic surfaces. Removes heavy grime and light scratchmarks. Buffs to a smooth glossy finish.

PACKED IN: 1 litre bottles x 12 per box

WEBBCLEAN INDUSTRIAL SOLVENT CLEANER

Powerful solvent based remover for contact adhesives, mastics and other difficult to remove contaminants. PACKED IN: 5 litre containers x 4 per box

WEBBFLEX PU FOAM GUN GRADE & NOZZLE GRADE

In-Situ Polyurethane Expanding Foam Canister applied expanding PU gap filling and fixing foam. Excellent adhesion to most substrates with good thermal and acoustic properties. CFC Free.

CONFORMANCE: BBA Assured Data Sheet No. 017/99 DIN 4102 part 1, Class B3

PACKED IN: Nozzle Grade 500ml & 750ml cans x 12 per box Gun Grade 750ml cans x 12 per box

WEBBFLEX B1 GUN & NOZZLE GRADE

Fire Retardant Expanding Polyurethane Foam
Fire retardant version of Webbflex PU Foam. Prevents the transmission of smoke, seals around pipework and cables, insulates against noise, heat and cold. CFC Free.

CONFORMANCE: DIN 4102 part 1, Class B1 BS476 Part 20 (Report: TE201142)

PACKED IN: Gun & Nozzle Grade 750 ml cans x 12 per box





Box Bolts

The BoxBolt fixing is a blind fixing solution for connecting to hollow section steelwork or where access is restricted to one side only. The BoxBolt fixing is suitable for use with rectangular, square and even circular hollow sections.

It has a hexagon head on the body which is suitable for installation with a standard spanner or where it is important to minimise the installation time the BoxSok can be used.

The M08,M10 and M12 have a one piece body and shoulder where the M16 and M20 has a rubber washer between the body and shoulder.

This acts as a secondary collapse mechanism to increase the clamping force and allow the BoxBolt to pull in small gaps between steelwork.

Both designs can be removed afterwards should this be required, although the bolt will need to be replaced with a new one.



Guaranteed Safe working load 5 to 1 Factor of safety

Lloyds Register approved

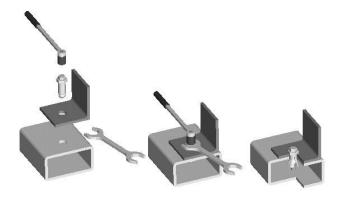
Hexagon Head for ease of installation

Optimisation of setscrew length to provide large fixing range

Installation with one tool only when used with BoxSok

Specification Data

BoxBolt	Product	Size	Setscrew	Fixing range		Across Flats	Shoulder	Hole size	Bolt	Hollow	Safe Working Load		Torque
	code		length	(dim x)		of shoulder	thickness	(mm)	Dia.	section	(kN)		(Nm)
			(mm)	Min	Max	(mm)	(mm)	*see note			Tensile	Shear	
M08	BQ1Z08	1	50	3	26	22	6	15	M08	120x120x5.0	2.7	7	25
	BQ2Z08	2	70	12	46	22	6	15		120x120x6.3, 8.0	4.5		Ī
	BQ3Z08	3	90	24	66	22	6	15		120x120x10.0, 12.5	6		Ī
M10	BQ1Z10	1	50	3	23	24	7	19	M10	120x120x5.0	4.5	13	45
	BQ2Z10	2	70	15	43	24	7	19		120x120x6.3	8.4		Ī i
	BQ3Z10	3	90	30	63	24	7	19		120x120x8.0, 10.0, 12.5	11.5		Ī
M12	BQ1Z12	1	55	3	25	26	8	21	M12	120x120x5.0	4.5	15	80
	BQ2Z12	2	80	18	50	26	8	21		120x120x6.3	7.8		Ī i
	BQ3Z12	3	100	36	70	26	8	21		120x120x8.0	13.1		Ī
			Ī							120x120x10.0, 12.5	15.4		Ī
M16	BQ1Z16	1	75	3	35	36	9	28	M16	150x150x5.0	6.4	35	190
	BQ2Z16	2	100	24	60	36	9	28		150x150x6.3	8.2		Ī
	BQ3Z16	3	120	48	80	36	9	28		150x150x8.0	13.9		Ī i
	İ	Ī	j i						İ	150x150x10.0	23.7		Ī i
			Ī							150x150x12.5	31		Ī
M20	BQ1Z20	1	100	3	42	46	11	35	M20	150x150x6.3	8	40	300
	BQ2Z20	2	120	30	72	46	11	35		150x150x8.0	15.3		Ī İ
	BQ3Z20	3	150	60	102	46	11	35		150x150x10.0	28.4		Ī Ì
			Ī							150x150x12.5	43.7		Ī







Type BA Beam Clamps - Recessed





- Manufactured from Ductile iron
- Hot Dip Galvanised as standard
- 5 to 1 Factor of Safety
- Lloyds Register approved

Specification Data

Product	Α	В	С	D		Е		Width	Torque	Tensile SWL (kN)	Frictional SWL (kN)
code	Bolt dia.					(mm) *See note				per bolt	per four bolts
	(Grade 8.8)	(mm)	(mm)	(mm)	1	2	3	(mm)	(Nm)	(5:1 Factor of Safety)	(5:1 Factor of Safety)
BA G08	M08	9	16	5	/	4	/	20	6	1.25	1
BA G10	M10	12	20	6	4	5	7	26	20	2.5	1
BA G12	M12	15	25.5	7	4.5	6	9.5	28.5	70	5.75	1.3
BA G16	M16	17	31	9	5.5	8	11	36	150	9.87	3.9
BA G20	M20	21	35	11	7	10	12.5	44	290	16.47	11
BA G24	M24	26	49	13	9	12	16	53	490	21.1	18

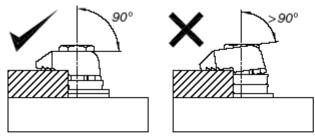
The type BA is a recessed fixing designed to hold the head of a grade 8.8 hexagon bolt whilst the nut is tightened.

The fixing is available with three tail lengths per size (1,2 and 3); the tail length (dim E) should be as near as possible or slightly below the thickness of the flange to which it is clamped.

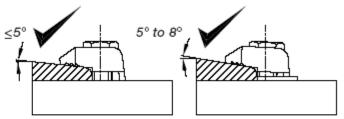
Packing pieces are available to adjust the clamping thickness in combination with the tail lengths of the fixings to suit the steelwork flange.

The packings suitable for this product are the BH1, BF1 and BG1. The BA is suitable for parallel flanges and tapered flanges with up to 8 degrees slope using with tapered steelwork.









TAPERED FLANGES INSTALLATION



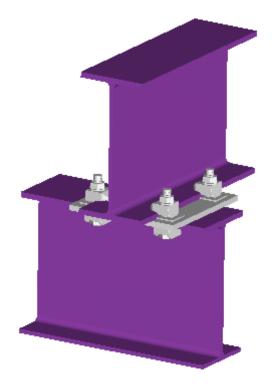
Type BB Beam Clamps - Flat

- Manufactured from Ductile iron
- Hot Dip Galvanised as standard
- 5 to 1 Factor of Safety
- Lloyds Register approved



Specification Data

Product	Α	В	С	D		E (mm)		Width	Torque	Tensile SWL (kN)	Frictional SWL (kN)
code	Bolt dia.					*See				per bolt	per four bolts
	(Grade 8.8)	(mm)	(mm)	(mm)	1	2	3	(mm)	(Nm)	(5:1 Factor of Safety)	(5:1 Factor of Safety)
BB G08	M08	9	16	9	/	4	/	20	6	1.25	1
BB G10	M10	12	20	11	4	5	7	26	20	2.5	1
BB G12	M12	15	25.5	13	4.5	6	9.5	28.5	70	5.75	1.3
BB G16	M16	17	31	17	5.5	8	11	36	150	9.87	3.9
BB G20	M20	21	35	21	7	10	12.5	44	290	16.47	11
BB G24	M24	26	49	25	9	12	16	53	490	21.1	18



The type BB is designed with a flat top to allow a nut or bolt head to be tightened down onto it.

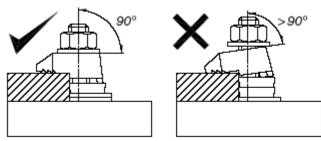
This

makes the fixing suitable for use with studs, tie bars or any other threaded items.

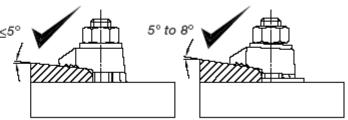
The fixing is available with three tail lengths per size (1,2 and 3); the tail length (dim E) should be as near as possible or slightly below the thickness of flange to which it is clamped.

Packing pieces are available to adjust the clamping thickness in combination with the tail lengths of the fixings to suit the steelwork flange.

The packings suitable for this product are the BH1, BF1 and BG1. The type BB is suitable for parallel flanges and tapered flanges up to 8 degrees slope.



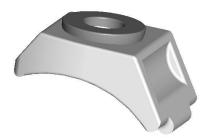




TAPERED FLANGES INSTALLATION

Type BK1 Beam Clamps





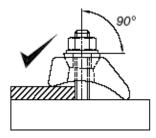
- Manufactured from Ductile iron
- Hot Dip Galvanised as standard
- 5 to 1 Factor of Safety
- Lloyds Register approved

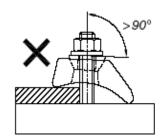
Specification Data

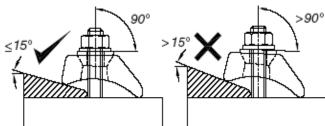
Product	Α	B1	B2	С	Width	Torque	Tensile SWL (kN)	Frictional SWL (kN)
code	Bolt dia.					(Nm)	per bolt	per four bolts
	(Grade 8.8)						(5:1 Factor of Safety)	(5:1 Factor of Safety)
BK1G08	M08	3 to 12	3 to 9	37	41	6	1.25	1
BK1G10	M10	3 to 15	3 to 12	48	41	20	2.5	1
BK1G12	M12	3 to 18	3 to 15	59	42	70	4.12	1.3
BK1G16	M16	3 to 24	N/A	75	47	150	6.6	3.9
BK1G20	M20	3 to 30	N/A	92	61	290	9.57	11
BK1G24	M24	3 to 36	N/A	116	75	490	12.75	18

The type BK1 is a self-adjusting fixing consisting of two parts. The body has a spherical seat cast into it to allow a hemispherical washer to sit in and rotate. This allows the body to adjust to a specified clamping range and provide a flat surface for a nut or bolt to be tightened down onto. This fixing is excellent for applications where the flange thickness cannot easily be measured or where the flange thickness may vary throughout a project. Due to its clamping action, it is also suitable for clamping to tapered flanges and rails up to 15 degrees. Long packings (BF2 and BG2) can be used to increase the clamping range, All sizes of the BK1 have a wide back tail to allow them to bridge the gap of slotted holes and also connect to open ends of strut products. The M08, M10 and M12 have an additional cut out in the tail to provide a tab that fits inside the open end of strut products, this aids installation but also prevents them from rotating once installed.











BE1 Recessed Top Adjustable

- Manufactured from Ductile iron
- Hot Dip Galvanised as standard
- 5 to 1 Factor of Safety
- Lloyds Register approved



The type BE1 is a recessed fixing similar to the BA. However, it has the additional feature of a fully threaded grade 12.9 socket screw at the back to allow adjustment to suit the flange thickness without the need for packings. This product is normally used when it is difficult to determine the actual thickness of the steelwork flange. It is suitable for parallel flanges and tapered flanges up to 5 degrees. Packing pieces can be used with this fixing to increase the clamping range, if required. The packings suitable for this product are the BF2 and BG2

Specification Data

Product code	A Bolt dia. (Grade 8.8)	B (mm)	C (mm)	D (mm)	E (mm)	F (dia)	Width (mm)	Tensile SWL (kN) per bolt (5:1 Factor of Safety)	Frictional SWL (kN) per four bolts (5:1 Factor of Safety)
BE1G10	M10	20	20	6	3 to 20	M06	26	2.5	1
BE1G12	M12	26	25.5	7	4 to 22	M06	28.5	3.72	1.3
BE1G16	M16	30	31	9	4 to 23	M08	36	8.25	3.9
BE1G20	M20	35	34	11	5 to 24	M10	44	16.12	11
BE1G24	M24	49	49	13	6 to 30	M12	53	21.1	18



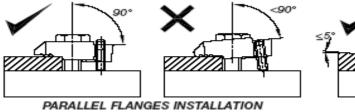
The type BE2 is a flat top fixing similar to the BB, however, it has the additional feature of a grade 12.9 socket screw at the back to allow adjustment to suit the flange thickness without the need for packings. This product is normally used when it is difficult to determine the actual thickness of the steelwork flange. It is suitable for parallel flanges and tapered flanges up to 5 degrees. Packing pieces can be used with this fixing to increase the clamping range, if required. The packings suitable for this product are the BF2 and BG2

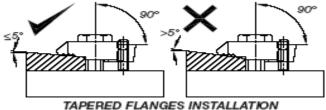
BE2 Flat Top Adjustable



Specification Data

Product	Α	В	С	D	E	F	Width	Tensile SWL (kN)	Frictional SWL (kN)
code	Bolt dia.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	per bolt	per four bolts
	(Grade 8.8)							(5:1 Factor of Safety)	(5:1 Factor of Safety)
BE2G12	M12	26	25.5	13	4 to 22	M06	28.5	3.72	1.3

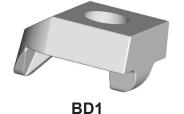




Type BC1 & BD1 Beam Clamps







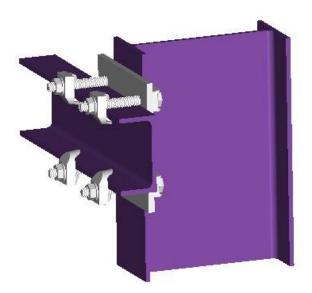
- Manufactured from Ductile iron
- Hot Dip Galvanised as standard
- 5 to 1 Factor of Safety
- Lloyds Register approved

The types BC1 and BD1 are designed for hooking onto the flanges of angles and channels to make steelwork connections

The BC1 has a recessed top to hold the head of a hexagon bolt in position whilst the nut is tightened.

The type BD1 is used for the same application but has a flat top to allow a nut to be tightened down onto it, making it suitable for use with studding, tie rods and other threaded items.

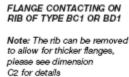
This product is not recommended for frictional applications.

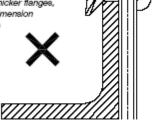


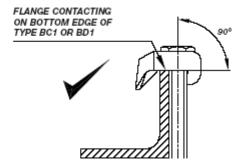
Specification Data

Product	Product	Α	В	C1	C2	D	E1	E2	Width	Torque	Tensile SWL (kN)
code	code	Bolt dia.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Nm)	per bolt
BC1	BD1	(Grade 8.8)									(5:1 Factor of Safety)
BC1G08	BD1G08	M08	9	5	7.5	6	5	9	22	3	1.25
BC1G10	BD1G10	M10	12	4	9.5	7.5	6	11	29	10	2.5
BC1G12	BD1G12	M12	15	6.5	13	9.5	7	12	31.5	35	4.32
BC1G16	BD1G16	M16	17	8	13	11.5	9	17	41	75	7.5
BC1G20	BD1G20	M20	21	9	14	13.5	11	21	49.5	145	11
BC1G24	BD1G24	M24	26	13	18	17	13	25	60	245	17.17









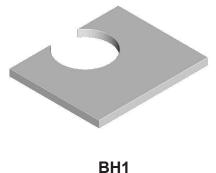


Type BF1, BG1 & BH1 Spacers





BF1



These products are used to provide support to the underside of the types BE1, BE2 and BK1, where required to ensure the fixing fits correctly onto the flange.

These are similar to the BH1, BF1 and BF2 but are longer back to front, providing support for the products which reach further back onto the location plate.

The BF2 is the thinnest with the BG2 being twice its thickness; these can both be used together in any combination.

Both packers fit onto the bolt shank between the bottom of the fixing and the top of the location plate.

See table below for dimensions of these products.

BG1

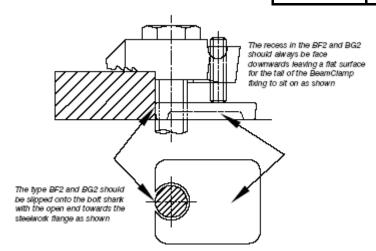
Product	Bolt	Α	В	С	D
code	dia.	(mm)	(mm)	(mm)	dia.
BG1G08	M08	8	14	22	10
BG1G10	M10	10	18	28	12
BG1G12	M12	12	22	30	14
BG1G16	M16	16	29	35	18
BG1G20	M20	20	33	43	21
BG1G24	M24	24	45	55	26

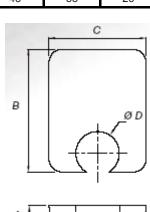
BF1

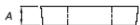
Product	Bolt	Α	В	С	D
code	dia.	(mm)	(mm)	(mm)	dia.
BF1G08	M08	4	14	22	10
BF1G10	M10	5	18	28	12
BF1G12	M12	6	22	30	14
BF1G16	M16	8	29	35	18
BF1G20	M20	10	33	43	21
BF1G24	M24	12	45	55	26
	code BF1G08 BF1G10 BF1G12 BF1G16 BF1G20	code dia. BF1G08 M08 BF1G10 M10 BF1G12 M12 BF1G16 M16 BF1G20 M20	code dia. (mm) BF1G08 M08 4 BF1G10 M10 5 BF1G12 M12 6 BF1G16 M16 8 BF1G20 M20 10	code dia. (mm) (mm) BF1G08 M08 4 14 BF1G10 M10 5 18 BF1G12 M12 6 22 BF1G16 M16 8 29 BF1G20 M20 10 33	code dia. (mm) (mm) (mm) BF1G08 M08 4 14 22 BF1G10 M10 5 18 28 BF1G12 M12 6 22 30 BF1G16 M16 8 29 35 BF1G20 M20 10 33 43

BH1

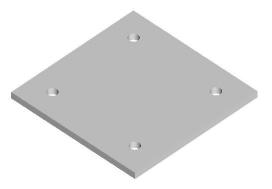
Product	Bolt	Α	В	С	D
code	dia.	(mm)	(mm)	(mm)	dia.
BH1Z08	M08	2	15	22	10
BH1Z10	M10	2	20	28	12
BH1Z12	M12	2.5	24	31	14
BH1Z16	M16	3	29	38	18
BH1Z20	M20	4	33	44	21
BH1Z24	M24	4	45	55	26







Location Plates



Manufactured from Mild steel grade S275

Hot Dip Galvanised as standard

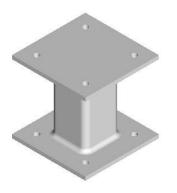
5 to 1 Factor of Safety

Bea<mark>m C</mark>lamp™

The location plate is an essential part of a BeamClamp assembly. It provides support for the fixings to react against and clamp onto the steelwork flange. The hole centres of the location plate are designed to suit the application and ensure that the fixings are correctly positioned onto the flange. BeamClamp division will design the location plate to suit your application and guarantee the load of the assembly. Each plate manufactured by BeamClamp division will be stamped to identify it. The fixings can be used with location plates not manufactured by BeamClamp division, however, in this case, we can only guarantee the fixings and not the plate. Please contact RSR BeamClamp division to discuss your application,

Location Spacers







Location spacers are two location plates joined together with a gap to allow for spaces between steelwork.

The plates can be welded at different angles to allow for sloping steelwork, such as, roof rafters.

Other variations can be manufactured to suit special applications.

Grating Clip



- Installation from one side only
- Fits 30mm to 41mm load bar centres
- Fits upto 50mm deep load bars as standard
- Slotted body for adjustment towards steelwork
- Cost effective



The Grating clip is a cost effective method of fixing down open floor grating to steelwork without the need to drill or weld. It can be installed with a flat head screw driver from the top side of the grating without access to the underneath required. It can be easily removed to allow the grating to be taken up for maintenance or re-positioning. The standard clip can accommodate between 30mm to 41mm load bar centres and to a depth of 50mm

Please contact RSR BeamClamp division if your application is not within the above specifications, we can modify the clip to suit most variations. The pressed steel body has a slot down its length to allow the body to be adjusted towards the steelwork should the transverse bars fall in an awkward position in relation to the steelwork flange. This ensures that the body of the clip always provides a good clamping surface underneath the steelwork to improve the clamping force and provide a good connection.



Alpha Wedge

Wedge

The Alpha Wedge is designed to lock quickly and securely into the re-entrant channel of Alphalok or Ribdeck AL decking to enable the suspension of all types of building services using threaded rod.

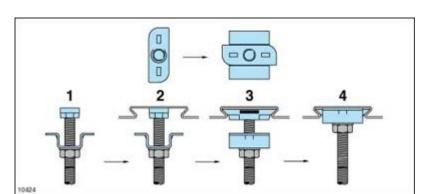
The product consists of two parts, a wedge and a plate. The wedge can be tapped to accommodate threaded rod sizes M6, M8 or M10, whilst the plate fits over the wedge to lock the assembly securely into the decking.

1 Pre-assemble the alpha wedge onto the threaded rod as shown in diagram 1.

Step 2 Insert the wedge into the re-entrant channel of the decking, flat surface uppermost and rotate until the chamfered cams engage in the sides of the channel, holding the wedge firmly in place.

Step 3 Slide the plate up the threaded rod, over the wedge, to lock it in position in the channel

Step 4 Tighten the locknut beneath the plate to hold the assembly in position.



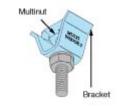
Multiwedge 2

Multiwedge 2 enables quick and easy suspension of building services from Ward Building Components' Multideck 60 composite steel/concrete floor decking.

Designed to work in harmony with the deck profile, MW2 eliminates the need for shot firing or drilling and hence preserves the strength of the floor decking by avoiding any potential damage.

No skilled labour is needed for installation, nor is any special tooling. Once the fixing has been inserted into the re-entrant channel of the decking it can be laterally adjusted before final tightening.

The 'Multi-Nut' can be tapped to accommodate threaded rod size M6, M8 or M10.

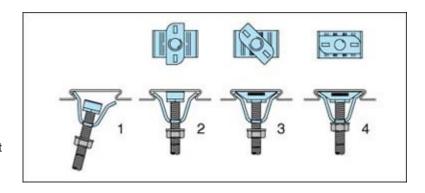


Step 1 Position Multi-nut and bracket on threaded rod as shown and insert one leg of bracket into re-entrant channel of decking. Snap other leg of bracket into channel, using a hammer blow if required.

Step 2 Slide assembly to desired position along length of re-entrant channel.

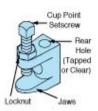
Step 3 Push and turn the multi-nut clockwise until it locks into the channel walls.

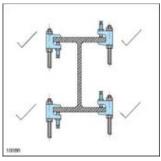
Step 4 Tighten the hexagon nut beneath the assembly to a torque of 10Nm.

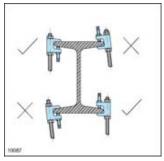


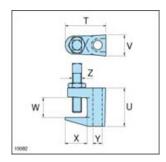
Flange Clamps indapter Engineered with Innovation

The Lindapter FL Series of flange clamps is the simplest, quickest and most cost-effective method of suspending building services from steel beams. Suitable for use with parallel or tapered flange beams, the FL can be supplied with the back hole drilled to accept a plain rod or tapped to accept a threaded rod. Four different sizes are available to suit various applications - if in doubt which size to use, please contact Lindapter. The FL uses a grade 8.8 cup point setscrew to provide maximum bite into steelwork and maximum load performance.









Product Code	Drop Rod	Loads (kN)	Setscrew Torque (Nm)	Locknut Torque (Nm)	Т	U	V	W	Х	Y	Z
FL16	M6	1.1	8	11	36	35	19	17	20	7	8
FL18	M8	1.1	8	11	36	35	19	17	20	9	8
FL210	M10	2.4	8	22	45	40	22	19	22	11	10
FL312	M12	3.1	8	22	50	46	25	23	28	13	10
FL412	M12	3.1	8	22	53	51	26	28	27	13	10

Step 1 Slide FL onto beam flange and tighten setscrew to recommended torque. To avoid over tightening, a rough guide to achieve the correct torque is to tighten the setscrew with thumb and forefinger and then apply a further quarter turn (90°) with a spanner.

Step 2 Tighten the locknut to the recommended torque.

Wedge Nuts (Vee Nut)

The Lindapter V Nut fits into the slots of 'V' profile composite floor decking, such as HoloRib, and is available with a threaded hole tapped M4, M5, M6, M8 or M10. The VN is suitable for decking with a 15° tapered slot.



Step 1 Screw VN onto threaded rod.



Step 2 Insert VN and rod into re-entrant channel of decking.



Step 3
Rotate both rod
and V Nut
through 90° so
that tapered
sides engage
the sides of the
channel.





Type S Plugs

Suitable for wood and chipboard screws. Locking lugs prevent rotating in the drill hole. No rim for through fixing. Expansion pressure at the bottom of the drill-hole, not at the neck of the fixing (no splitting of render and tiles). Direction of expansion can be selected (important for fixings close to the edge). High load characteristics in solid bricks, perforated bricks and hollow blocks.



Description	Dia	Length	Drill Dia	Min Hole	Use with wood
	mm	mm	mm	Depth mm	screw size mm
S6	6	30	6	40	4-5mm
S7	7	30	7	40	4-5.5mm
S8	8	40	8	55	4.5-6mm
S10	10	50	10	70	6-8mm
S12	12	60	12	80	8-10mm
S14	14	75	14	90	10-12mm

Expansion part is based on the construction of the fischer S -plug which has proven itself millions of times. Suitable for interior and exterior use (facade, roof). Comprehensive product range with a variety of safety screws, preassembled. Also available without screws. Building-inspectorate approval in Germany, France and Sweden. Optimum screw control and corrosion protection . Integrated setting lock prevents pre-expansion of the fixing . In the case of fixing sets (= pre-assembled) screw and fixing are perfectly matched.

Type S-RT Frame Fixings



Suitable for:

concrete, lightweight concrete, sand-lime solid bricks, solid red bricks, clinker bricks, solid pumice, perforated pumice, gypsum plasterboards, natural stone etc.

For fixing:

Timber battens, wooden laths, facade and roof substructures metal and plastic, window and door frames, metal profiles, insulants, fireproof doors, panels, cladding etc.

The fischer hammerfix is simply tapped in with a hammer - DONE! Screwdrivers or electric screwdrivers are thus superfluous. This saves time and effort. The fixing was developed for push-through assembly as proven in practice and is supplied with pre-assembled nail screw - optionally with zinc plated, stainless steel or plastic nails. The crossdrive recess Z enables loosening of the fixing for subsequent adjustment.



To fix thin profiles and sheets, we recommend fischer nail fixings with flat collars, in order to avoid damage or puncturing.

The fixings are manufactured from the same high-grade and quality-monitored polyamide (nylon) which is also used for the frame fixings with general building inspectorate approval. The material is temperature-resistant from -40° to +80°C. As a result of the neat internal and external geometry in conjunction with the high-grade material and the special nail geometry, the fischer hammerfix guarantees constantly good pull out loads and installation results. Even in the case of assemblies through damp timber battens, the fixing will not expand prematurely.

For fixing:

All kinds of timber including laths, frames, wall connection- or render profiles, perforated profiles, wall angles, cable ducts, cable and pipe clips, sheets etc.



Zykon anchor FZA



Undercut anchor for prior insertion (FZA bolt version and internally -threaded anchor FZA-I) and push-through installation (FZA-D bolt version). A cylindrical conical hole with an undercut is produced

with the Drill bit FZUB in one work process. When setting the anchor, the anchor sleeve is driven over the cone with a hammer (or setting tool) and fills the undercut hole with a positive fit.

Approved for:

Cracked and non-cracked concrete B25 to B55 resp. C20/25 to C50/60.

Also suitable for:

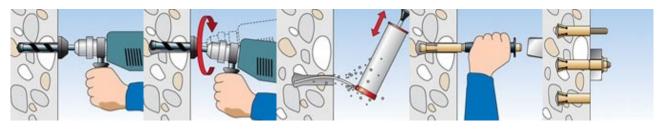
Concrete B15, natural stone with dense structure, solid brick, sand-lime solid brick.

For fixing of:

Steel constructions, railings, consoles, ladders, cable trays, machines, staircases, gates, facades, window elements.

Advantages/benefits

- Suitable for cracked and non-cracked concrete.
- Positive fit in the undercut gives additional security.
- Virtually expansion-free operation allows cost-efficient fixing with very small edge and axial spacing.
- Single-step drilling process simultaneously produces the undercut, saving installation time.
- Immediate load-bearing capability avoids installation interruptions (no interruption for resin curing times, unlike chemical anchors)
- Simple visual inspection of the green ring mark ensures 100% function.



Type of installation

• Prior insertion (FZA and FZA-I) and push-through installation (FZA-D).

Installation tips

 Use the A4 stainless steel FZA outdoors and in damp rooms, and the highly corrosion resistant C-steel (material no. 1.4529) in aggressive atmospheres.

FZA 10 x 40 M 6/10 FZA 12 x 40 M 8/15 FZA 12 x 50 M 8/15 FZA 14 x 40 M10/25	Accessories FZE Setting
FZA 14 x 60 M10/25 FZA 18 x 80 M12/25 FZA 22 x 100 M16/60 FZA 22 x 125 M16/60 FZA 10 x	
40 M 6/10 A4 FZA 10 x 40 M 6/35 A4 FZA 12 x 40 M 8/15 A4 FZA 12 x 50 M 8/15 A4 FZA 12 x 50 M 8/50 A4 FZA 14 x 40 M10/25 A4 FZA 14 x 60 M10/25 A4 FZA 14 x 60	Accessories FZUB Drill Bit
M10/50 A4 FZA 18 x 80 M12/25 A4 FZA 18 x 80 M12/55 A4 FZA 22 x 100 M16/60 A4 FZA 22 x 125 M16/60 A4	Accessories FZUE

Pipe Rings & Back Plates

Malleable Iron Single Pipe Rings

Size availability: 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6"



Threads: 1/4" to 2" Tapped M10 2,1/2" to 6" Tapped M12

Finishes: Iron, Galvanised

Malleable Iron Double Pipe Rings

Size availability: 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6"

Threads: 1/4" to 2" Tapped M10 2,1/2" to 6" Tapped M12

Finishes: Iron, Galvanised

Female Back Plate

Threads: 1/8" BSP, 1/4" BSP, 3/8" BSP, 1/2" BSP, M10, M12

Finishes: Iron, Galvanised

Cast Brass Single Rings

Size availability: 12mm, 15mm, 22mm, 28mm, 35mm, 42mm, 54mm, 67mm, 76.1mm, 108mm, 133mm, 159mm

Threads: Tapped M10

Finishes: Bright Finish, Chrome

Cast Brass Double Rings

Size availability: 12mm, 15mm, 22mm, 28mm, 35mm, 42mm, 54mm, 67mm, 76.1mm,

108mm, 133mm, 159mm

Threads: Tapped M10

Finishes: Bright Finish, Chrome

Round Brass Female Boss Back Plate

Threads: 1/8" BSP, 1/4" BSP, 3/8" BSP, 1/2" BSP, M10

Finishes: Bright Finish, Chrome

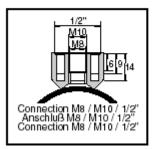
Lined Pipe Clamps M8/M10 dual boss



Part No	Size mm	Size in
08881191813	15-20mm	3/8"
08881192213	21-25mm	1/2"
08881192813	26-31mm	3/4"
08881193513	32-36mm	1"
08881194213	42-46mm	1.1/4"
08881194813	46-50mm	1.1/2"
08881195413	50-54mm	
08881196013	56-60mm	2"
08881190638	63-68mm	
08881190688	68-73mm	
08881190758	75-80mm	2.1/2"
08881190848	84-89mm	
08881190888	88-92mm	3"
08881190978	97-102mm	
08881191068	106-111mm	
08881191098	109-114mm	
08881191138	113-119mm	4"
08881191228	122-127mm	
08881191318	131-136mm	
08881191378	137-142mm	5"
08881191598	159-168mm	6"



Sound insulation value on average 22 dB (A) Schallschutzreduzierung im Mittel 22 dB (A) Reduction isophonique moyen 22 dB (A)



Pipe Clamps M8/M10 dual boss

Part No	Size mm	Size in
08881280185	18-20mm	3/8"
08881280225	21-25mm	1/2"
08881280285	27-32mm	3/4"
08881280355	33-38mm	1"
08881280405	39-43mm	
08881280425	42-46mm	1.1/4"
08881280485	48-55mm	1.1/2"
08881280605	60-65mm	2"
08881280686	68-73mm	
08881280726	73-77mm	2.1/2"
08881280866	84-90mm	3"
08881280976	97-103mm	
08881281066	106-111mm	
08881281106	109-114mm	4"
08881281256	125-130mm	
08881281396	139-145mm	5"
08881281686	160-168mm	6"

UNISTRUT



Heavy Duty Pipe Clamps Zinc Plated



Size id	Material
65mm	40mm x 3mm
76mm	
83mm	
89mm	
95mm	
102mm	
108mm	
114mm	
121mm	
127mm	40mm x 5mm
133mm	
140mm	
146mm	
152mm	
155mm	
159mm	
168mm	50
173mm	50mm x 6mm
178mm	
186mm	
193mm	
199mm	
208mm 216mm	
210mm	
225mm	
232mm	
244mm	
252mm	
259mm	
268mm	
273mm	
283mm	
290mm	
298mm	
308mm	
323mm	

Heavy Duty Pipe Saddles Zinc Plated



Saddle ID
133mm
139mm
146mm
152mm
159mm
168mm
173mm
178mm
186mm
193mm
199mm
208mm
216mm
225mm
232mm
244mm
252mm

Hard Wood Blocks

Suitable for use on low temperature hot water (0°C - 82°C) on both copper and steel pipework.

This timber supplied is being produced in accordance with the ITTO guidlines for sustainable management of Natural Tropical Forests prepared national guidelines based on the ITTO principles and are firmly committed to the concept of sustainability, outlined at the 10th session of ITTO held in Ecuador in the year 2000.

Also available foil covered.

Steel Pipe				
NB Inch	NB MM	O/D MM		
1/2" 3/4 1" 1.1/4"	15 20 25 32	21 27 34 42	Copper Pipe NB MM	O/D MM
1.1/4 1.1/2" 2"	40 50	48 60	15 22	15 22
2.1/2" 3"	65 80	76 89	28 35	28 35
4" 5"	100 125	114 140	42 54	42 54
6" 8"	150 200	168 220	67 76	67 76
10" 12" 14"	250 300 350	273 324 356	108 133 159	108 133 159

Phenolic Blocks

Koolphen is a CFC-free rigid phenolic insulation which is manufactured in (block) form. The closed cell composition gives the product excellent thermal properties. It is the most efficient thermal insulation material commonly available. Being based on a phenolic resin, it has outstanding fire characteristics and extremely low smoke emission when exposed to a flame source. Koolphen K is a lightweight and easily fabricated on site when required.

Available insulation thickness 15mm, 20mm, 25mm, 30mm, 40mm, 50mm 63mm, 75mm & 100mm

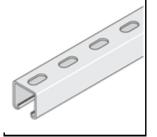
Steel Pipe NB Inch	NB MM	O/D MM		
1/2" 3/4 1" 1.1/4"	15 20 25 32	21 27 34 42	Copper Pipe NB MM	O/D MM
1.1/2" 2" 2.1/2" 3" 4" 5" 6" 8"	40 50 65 80 100 125 150 200	48 60 76 89 114 140 168 220	15 22 28 35 42 54 67 76	15 22 28 35 42 54 67 76
10" 12" 14"	250 300 350	273 324 356	108 133 159	108 133 159





Unistrut Channel & Spring Nuts

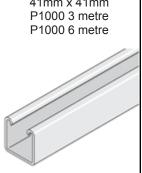
2.5mm Gauge pre-galv 41mm x 41mm P1000T 3 metre P1000T 6 metre



2.5mm Gauge pre-galv 21mm x 41mm P3300T 3 metre P3300T 6 metre



2.5mm Gauge pre-galv 41mm x 41mm P1000 3 metre P1000 6 metre



2.5mm Gauge pre-galv 21mm x 41mm P3300 3 metre P3300 6 metre



1.5mm Gauge pre-galv 21mm x 41mm P4000T 3 metre P4000T 6 metre



2.5mm Gauge pre-galv 41mm x 41mm P3301T 3 metre P3301T 6 metre



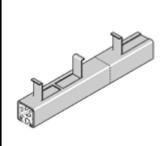
2.5mm Gauge pre-galv 83mm x 41mm P1001T 3 metre P1001T 6 metre

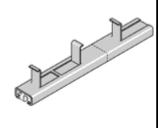


2.5mm Gauge pre-galv 83mm x 41mm P5000T 3 metre P5000T 6 metre

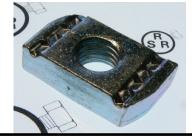


P3270 Concrete cast in Channel deep P3370 Concrete cast in Channel Shallow





Plain Channel Nuts



Size Part Number M6 0770m06 M8 0770m08 0770m10 M10 M12 0770m12

Short Spring Channel Nuts



Size Part Number M6 0770m06s M8 0770m08s M10 0770m10s M12 0770m12s

Long Spring Channel Nuts



Size Part Number M6 0770m06l M8 0770m08I M10 0770m10l 0770m12l M12

KWIKSTRUT

UNISTRUT

Pre-assemble onto threaded rod to simplify drop rod install

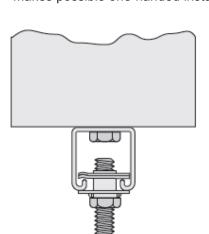
Saves Time

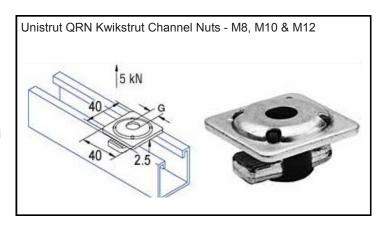
No Loose Parts

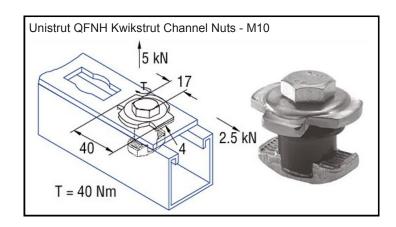
Use where you would normally use a channel nut & washer

Reduces three parts to just one

Makes possible one-handed installation



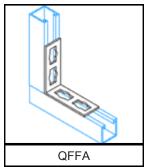


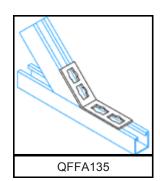


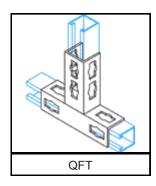


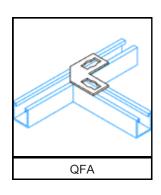


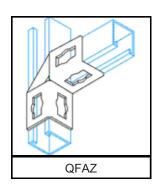


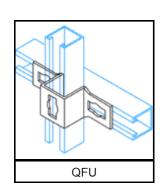




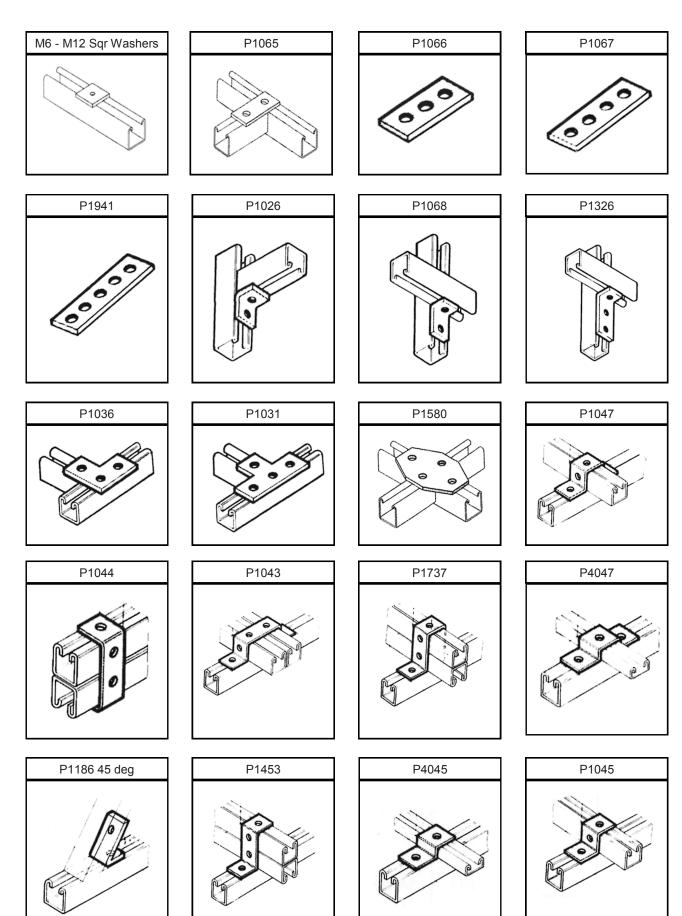






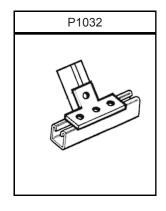


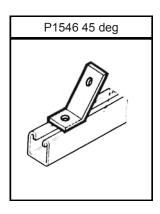
Channel Brackets

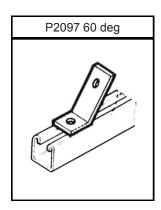


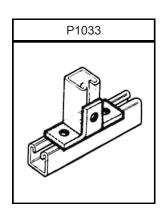
Full Unistrut catalogue available on request

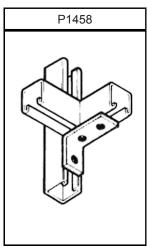
Channel Brackets

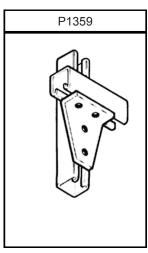


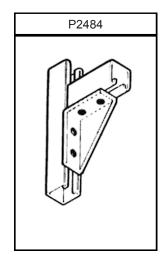


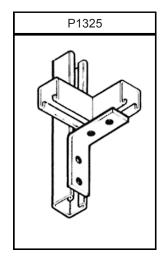


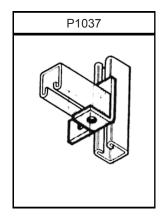


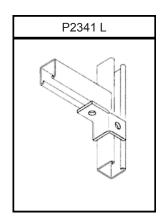


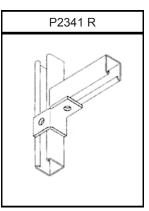


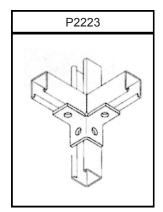


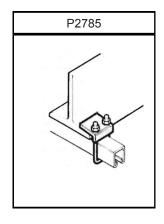


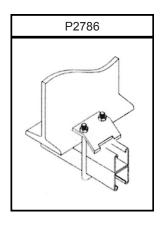


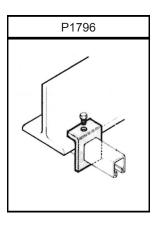


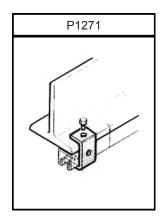




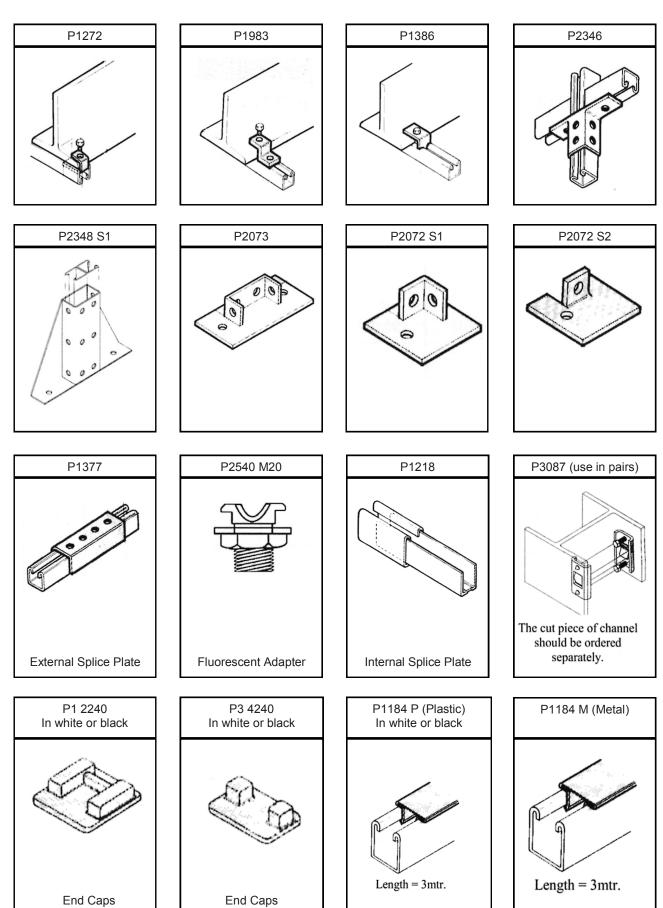




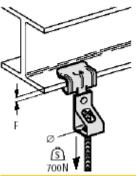




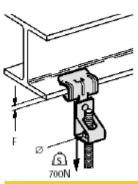
Channel Brackets



Spring Steel Clips

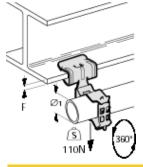


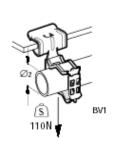
	_			
B-LINE NO.	F mm	Ø	UPC NO. 781011	M-ZINC
BH4-E-1-2	2 - 3	M6	04099	100
BH4-E-2-4	3 - 8	M6	03683	100
BH4-E-5-8	8 - 14	M6	03684	100
BH4-E-9-12	14 - 20	M6	03685	100
BMH8-E-1-2	2 - 3	M8	04102	100
BMH8-E-2-4	3 - 8	M8	03687	100
BMH8-E-5-8	8 - 14	M8	03688	100
BMH8-E-9-12	14 - 20	M8	03689	100
BMH10-E-1-2	2 - 3	M10	04103	100
BMH10-E-2-4	3 - 8	M10	03690	100
BMH10-E-5-8	8 - 14	M10	03691	100
BMH10-E-9-12	14 - 20	M10	03692	100.



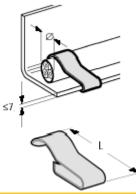
70014				
B-LINE NO.	F mm	Ø mm	UPC NO. 781011	M-ZINC
BH5-E-1-2	2 - 3	11	04101	100
BH5-E-2-4	3 - 8	11	03693	100
BH5-E-5-8	8 - 14	11	03694	100
BH5-E-9-12	14 - 20	11	03695	100
BH13-E-1-2	2 - 3	13	04142	100
BH13-E-2-4	3 - 8	13	03696	100
BH13-E-5-8	8 - 14	13	03697	100
BH13-E-9-12	14 - 20	13	03698	100







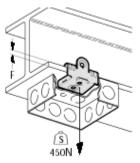
B-LINE NO.	F mm	Ø1 mm	Ø₂ mm	UPC NO. 781011	MIZING
BG-6-E-1-2	2-3	14-18	8-12	04146	100
BG-6-E-2-4	3-8	14-18	8-12	03919	100
BG-6-E-5-8	8-14	14-18	8-12	03921	100
BG-6-E-9-12	14-20	14-18	8-12	03922	100
BG-8-12-E-1-2	2-3	18-27	12-21	04097	100
BG-8-12-E-2-4	3-8	18-27	12-21	03923	100
BG-8-12-E-5-8	8-14	18-27	12-21	03924	100
BG-8-12-E-9-12	14-20	18-27	12-21	03925	100
BG-16-E-1-2	2-3	27-35	21-29	04098	100
BG-16-E-2-4	3-8	27-35	21-29	03926	100
BG-16-E-5-8	8-14	27-35	21-29	03927	100
BG-16-E-9-12	14-20	27-35	21-29	03928	50
BG-20-E-1-2	2-3	35-42	29-36	04147	100
BG-20-E-2-4	3-8	35-42	29-36	03929	100
BG-20-E-5-8	8-14	35-42	29-36	03930	100
BG-20-E-9-12	14-20	35-42	29-36	03931	100
BG-24-E-1-2	2-3	42-50	36-44	04137	50
BG-24-E-2-4	3-8	42-50	36-44	03932	50
BG-24-E-5-8	8-14	42-50	36-44	03933	50
BG-24-E-9-12	14-20	42-50	36-44	03934	50



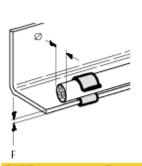
B-LINE NO.	Ø mm	L mm	UPC NO. 781011	MIZING
BX-16	16	41	19966	100
BX-20	20	48	19967	100



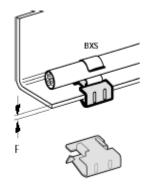
Spring Steel Clips



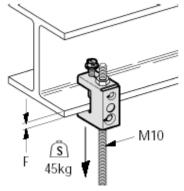
B-LINE NO.	F mm	UPC NO. 781011	M-ZINC
BU-2-4	3 - 8	03938	100
BU-5-8	8 - 14	03939	100
BU-9-12	14 - 20	03940	100.



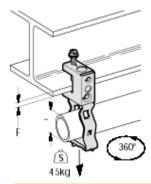
NO.	mm	mm	781011	E-ZINC
BXS-67	2 - 4	6 - 7	19973	100
BXS-89	2 - 4	7 - 9	19974	100
BXS-1011	2 - 4	10 - 11	19975	100
BXS-1214	2 - 4	12 - 14	19976	100
BXS-1519	2 - 4	15 - 19	19977	100
BXS-2024	2 - 4	20 - 24	19978	100
BXS-2530	2 - 4	25 - 30	19979	100
BXM-67	4 - 7	6 - 7	19980	100
BXM-89	4 - 7	7 - 9	19981	100
BXM-1011	4 - 7	10 - 11	19982	100
BXM-1214	4 - 7	12 - 14	19983	100
BXM-1519	4 - 7	15 - 19	19984	100
BXM-2024	4 - 7	20 - 24	19985	100
BXM-2530	4 - 7	25 - 30	19986	100
BXL-67	8 - 12	6 - 7	19987	100
BXL-89	8 - 12	7 - 9	19988	100
BXL-1011	8 - 12	10 - 11	19989	100
BXL-1214	8 - 12	12 - 14	19990	100
BXL-1519	8 - 12	15 - 19	19991	100
BXL-2024	8 - 12	20 - 24	19992	100
BXL-2530	8 - 12	25 - 30	19993	100



B-LINE	F	UPC NO.	E-ZINC
NO.	mm	781011	
BFA-1215	12 - 15	19955	100
BFA-1520	15 - 20	19956	100

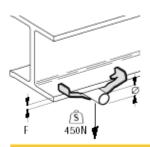


B-LINE	F	UPC NO.	M-ZINC
No.	mm	781011	
BC1	≤18	03640	100

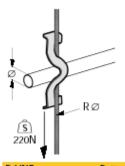


B-LINE NO.	F mm	mm	UPC NO. 781011	M-ZINC
BG-8-12-C2	≤18	18 - 27	03641	100
BG-16-C2	≤18	27 - 35	03642	100
BG-20-C2	≤18	35 - 42	03643	100
BG-24-C2	≤18	42 - 50	03644	50
BG-32-C2	≤18	50 - 63	03645	50

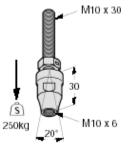
Spring Steel Clips



B-LINE No.	F mm	Ø mm	UPC NO. 781011	M-ZINC
BW-8	4 - 7	16 - 19	03751	100
BW-12	4 - 7	19 - 22	03752	100
BW-12	8 - 10	16 - 20	03752	100
BW-12	11 - 13	13 - 18	03752	100.
BW-16	4 - 7	25 - 32	03753	100
BW-16	8 - 10	22 - 28	03753	100
BW-16	11 - 13	19 - 24	03753	100
BW-20	4 - 7	32 - 40	03754	100
BW-20	8 - 10	28 - 36	03754	100
BW-20	11 - 13	25 - 32	03754	100



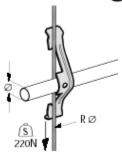
B-LINE NO.	R∅	Ø mm	UPC NO. 781011	M-ZINC
BW-8	4 - 6 mm	16 - 19	03751	100
BW-12	4 - 6 mm	19 - 23	03752	100
BW-12	M10	16 - 20	03752	100



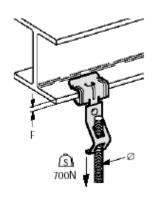
B-LINE NO.	UPC NO. 781011	EZINC
BSC-10	04445	50





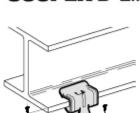


B-LINE NO.	R∅	Ø mm	UPC NO. 781011	M-ZINC
BW-16	4 - 6 mm	27 - 30	03753	100
BW-16	M10	20 - 25	03753	100
BW-20	4 - 6 mm	32 - 40	03754	100
BW-20	M10	27 - 38	03754	100



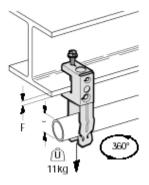
B-LINE NO.	F mm	Ø mm	UPC NO. 781011	M-ZINC
BH14-E-1-2	2 - 3	8	04193	100
BH14-E-2-4	3 - 8	8	03675	100
BH14-E-5-8	8 - 14	8	03676	100
BH14-E-9-12	14 - 20	8	03677	100
BH2-E-1-2	2 - 3	10	04192	100
BH2-E-2-4	3 - 8	10	03679	100
BH2-E-5-8	8 - 14	10	03680	100
BH2-E-9-12	14 - 20	10	03681	100



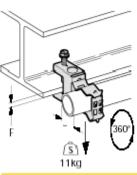


B-LINE NO.	F mm	(S) N	UPC NO. 781011	M-ZNC
BE-1-2	2 - 3	700	03897	100
BE-2-4	3 - 8	900	03898	100
BE-5-8	8 - 14	900	03899	100
BE-9-12	14 - 20	900	03901	100.

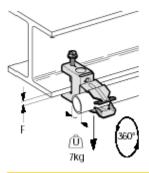
Spring Steel Clips



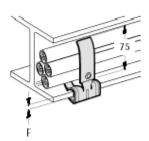
B-LINE NO.	F mm	mm	UPC NO. 781011	M-ZINC
BP-8-C2	≤18	18 - 22	03652	100
BP-12-C2	≤18	22 - 30	03653	100
BP-16-C2	≤18	30 - 35	03655	100



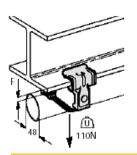
B-LINE NO.	F mm	mm	UPC NO. 781011	M-ZINC
BG-8-12-C1	≤18	18-27	03646	100
BG-16-C1	≤18	27-35	03647	100
BG-20-C1	≤18	35-42	03648	100
BG-24-C1	≤18	42-50	03649	50
BG-32-C1	≤18	50-63	03651	50



B-LINE NO.	F mm	mm	UPC NO. 781011	M-ZINC
BP-8-C1	≤18	18 - 22	03656	100
BP-12-C1	≤18	22 - 30	03657	100
BP-16-C1	≤18	30 - 35	03659	100



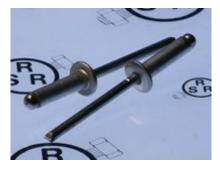
B-LINE NO.	F mm	UPC NO. 781011	M-ZINC
BE-1-2-F62	2 - 3	03779	100
BE-2-4-F62	3 - 8	03780	100
BE-5-8-F62	8 - 14	03781	100
BE-9-12-F62	14 - 20	03782	100



B-LINE No.	F mm	UPC NO. 781011	M-ZINC
BE-2-4-CT2-R	3 - 8	03774	100
BE-5-8-CT2-R	8 - 14	03775	100
BE-9-12-CT2-R	14 - 20	03776	100

Blind Rivets Alu/Steel Standard (Dome Head)

Rivet	Hole Dia	Rivet Body D x L mm	Grip Range mm	Box Qty
2.4 mm	2.5mm	2.4 x 4	0.5 - 1.5	1000
		2.4 x 6	1.5 - 3.5	1000
		2.4 x 8	3.5 - 5.0	1000
3.2 mm	3.3mm	3.2 x 4	0.5 - 1.5	500
		3.2 x 6	1.5 - 3.5	500
		3.2 x 8	3.5 - 5.0	500
		3.2 x 10	5.0 - 7.0	500
		3.2 x 12	7.0 - 9.0	500
		3.2 x 14	9.0 - 11.0	500
		3.2 x 16	11.0 - 13.0	500
		3.2 x 18	13.0 - 15.0	500
		3.2 x 20	15.0 - 17.0	500
		3.2 x 25	17.0 - 22.0	500
4.0 mm	4.1mm	4 x 5	0.5 - 1.5	500
		4 x 6	1.5 - 3.0	500
		4 x 7	3.0 - 4.0	500
		4 x 8	4.0 - 5.0	500
		4 x 10	5.0 - 6.5	500
		4 x 12	6.5 - 8.5	500
		4 x 14	8.5 - 10.5	500
		4 x 16	10.5 - 12.5	500
		4 x 18	12.5 - 14.5	500
		4 x 20	14.5 - 16.5	500
		4 x 25	16.5 - 21.5	500
		4 x 30	21.5 - 26.0	250
		4 x 35	26.0 x 30.0	250
		4 x 40	30.0 - 35.0	250
4.8 mm	4.9mm	4.8 x 6	2.0 - 2.5	500
		4.8 x 8	2.5 - 4.5	500
		4.8 x 10	4.5 - 6.0	500
		4.8 x 12	6.0 - 8.0	500
		4.8 x 14	8.0 - 10.0	500
		4.8 x 16	10.0 - 12.0	500
		4.8 x 18	12.0 - 14.0	500
		4.8 x 20	14.0 - 15.0	250
		4.8 x 25	15.0 - 20.0	250
	0.4	4.8 x 30	20.0 - 25.0	100
6.0 mm	6.1mm	6 x 8	2.0 - 3.0	250
		6 x 10	3.0 - 5.0	250
		6 x 12	5.0 - 7.0	250
		6 x 16	7.0 - 11.0	250
		6 x 18	11.0 - 13.0	250
		6 x 20	13.0 - 15.0	250
		6 x 25	15.0 - 20.0	250
		6 x 30	20.0 - 24.0	250
		6 x 35	24.0 - 29.0	100
		6 x 40	29.0 - 34.0	100
		6 x 45	34.0 - 39.0	100
	1	6 x 50	34.0 - 44.0	100



Rivet Body:

AIMg 3 Steel Zinc Plated Mandrel:

Rivet Dia	Shear Strength	Tensile Strength	Mandrill dia	Max Head
mm	N	N	mm	dia mm
2.4	350	450	1.5	5.0
3.2	800	950	1.95	6.5
4 x 5 to12	1.400	2.000	2.1	8.0
4 x 14 to 40	850	1.000	2.1	8.0
4.8	2.000	2.700	2.7	9.5
6	3.100	4.000	3.2	12.0

Blind Rivets Alu/Steel Countersunk

Rivet	Hole	Rivet Body	Grip Range	Box Qty
	Dia	D x L mm	mm	_
3.2 mm	3.3mm	3.2 x 6	1.5 - 3.5	500
		3.2 x 8	3.5 - 5.5	500
		3.2 x 10	5.5 - 7.0	500
		3.2 x 12	7.0 - 9.0	500
		3.2 x 14	9.0 - 11.0	500
		3.2 x 16	11.0 - 13.0	500
4.0 mm	4.1mm	4 x 6	0.5 - 3.0	500
		4 x 8	3.0 - 5.0	500
		4 x 10	5.0 - 6.5	500
		4 x 12	6.5 - 8.5	500
		4 x 16	8.5 - 12.5	500
		4 x 18	12.5 - 14.5	500
		4 x 20	14.5 - 16.5	500
		4 x 25	16.5 - 21.5	500
4.8 mm	4.9mm	4.8 x 6	0.5 - 3.0	500
		4.8 x 8	3.5 - 4.5	500
		4.8 x 10	4.5 - 6.0	500
		4.8 x 12	6.0 - 8.0	500
		4.8 x 14	8.0 - 10.0	500
		4.8 x 16	10.0 - 12.0	500
		4.8 x 18	12.0 - 14.0	500
		4.8 x 20	14.0 - 16.0	250
		4.8 x 25	16.0 - 21.0	250
		4.8 x 30	21.0 - 25.0	100



Rivet Body: AIMg 3 Mandrel: Steel Zinc Plated

Blind Rivets Alu/Steel Large Flange

Rivet	Hole	Rivet Body	Grip Range	Box Qty
	Dia	D x L mm	mm	
3.2 mm	3.3mm	3.2 x 6	1.5 - 3.5	500
		3.2 x 8	3.5 - 5.0	500
		3.2 x 10	5.0 - 7.0	500
		3.2 x 12	7.0 - 9.0	500
		3.2 x 16	9.0 - 13.0	500
4.0 mm	4.1mm	4 x 6	1.5 - 3.0	500
		4 x 8	3.0 - 5.0	500
		4 x 10	5.0 - 6.5	500
		4 x 12	6.5 - 8.5	500
		4 x 16	8.5 - 12.5	500
		4 x 20	12.5 - 16.5	500
4.8 mm	4.9mm	4.8 x 8	2.5 - 4.5	500
		4.8 x 10	4.5 - 6.0	500
		4.8 x 12	6.0 - 8.0	500
		4.8 x 14	8.0 - 10.0	500
		4.8 x 16	8.0 - 12.0	500
		4.8 x 20	12.0 - 15.0	250
		4.8 x 25	15.0 - 20.0	250



Rivet Body: AIMg 3 Mandrel: Steel Zinc Plated

Rivet Dia	Shear Strength	Tensile Strength	Mandrill dia	Max Head
mm	N	N	mm	dia mm
3.2	720	950	1.95	9.5
4.0	1.400	2.000	2.1	12.0
4.8	1.800	2.700	2.7	16.0

Blind Rivets Alu/Stainless Steel Standard Dome Head

Rivet	Hole	Rivet Body	Grip Range	Box Qty
0.0	Dia	DxLmm	mm	1000
3.0 mm	3.1mm	3 x 4	0.5 - 1.5	1000
		3 x 6	1.5 - 3.5	1000
		3 x 8	3.5 - 5.0	1000
		3 x 10	5.0 - 7.0	500
		3 x 12	5.0 - 9.0	500
		3 x 16	9.0 - 13.0	500
		3 x 18	13.0 - 15.0	250
		3 x 20	15.0 - 17.0	250
		3 x 25	17.0 - 22.0	250
4.0 mm	4.1mm	4 x 6	1.5 - 3.0	500
		4 x 8	3.0 - 5.0	500
		4 x 10	5.0 - 6.5	500
		4 x 12	6.5 - 8.5	500
		4 x 14	8.5 - 10.5	500
		4 x 16	10.5 - 12.5	500
		4 x 18	12.5 - 14.5	500
		4 x 20	14.5 - 16.5	500
		4 x 25	16.5 - 21.5	500
5.0 mm	5.1mm	5 x 6	0.5 - 3.0	500
		5 x 8	3.0 - 4.5	500
		5 x 10	4.5 - 6.0	500
		5 x 12	6.0 - 8.0	500
		5 x 14	8.0 - 10.0	500
		5 x 16	10.0 - 12.0	500
		5 x 18	12.0 - 14.0	500
		5 x 20	14.0 - 16.0	250
		5 x 25	16.0 - 21.0	250
		5 x 30	21.0 - 25.0	100
		5 x 35	25.0 - 30.0	100
		5 x 40	30.0 - 35.0	100
		5 x 45	35.0 - 40.0	100
		5 x 55	40.0 - 48.0	100



Rivet Body: Alu AlMg 3 Mandrel: A2 Stainless Steel

Blind Rivets Alu / Alu Standard Dome Head

Rivet	Hole	Rivet Body	Grip Range	Box Qty
1	Dia	D x L mm	mm	Don diy
3.2 mm	3.3mm	3.2 x 6.1	0.8 - 3.2	500
		3.2 x 7.6	3.2 - 4.8	500
		3.2 x 9.2	4.8 - 6.4	500
		3.2 x 12.3	6.4 - 9.5	500
		3.2 x 15.5	9.5 - 12.7	500
4.0 mm	4.1mm	4 x 6.6	1.5 - 3.2	500
		4 x 9.8	3.2 - 6.4	500
		4 x 12.9	6.4 - 9.5	500
		4 x 16.1	9.5 - 12.7	500
4.8 mm	4.9mm	4.8 x 7.2	1.5 - 3.2	500
		4.8 x 10.3	3.2 - 6.4	500
		4.8 x 13.5	6.4 - 9.5	500
		4.8 x 16.7	9.5 - 12.7	500
		4.8 x 19.9	12.7 - 15.9	500
		4.8 x 23.0	15.9 - 19.0	250



Rivet Body: Alu AlMg 2.5 Mandrel: Alu AlMg 5

Blind Rivets Steel / Steel Standard Dome Head

Rivet	Hole Dia	Rivet Body D x L mm	Grip Range mm	Box Qty
3.2 mm	3.3mm	3.2 x 6	2.0 - 3.0	500
0.2 11111	0.0111111	3.2 x 8	3.0 - 5.0	500
		3.2 x 10	5.0 - 6.5	500
		3.2 x 12	6.5 x 8.5	500
		3.2 x 16	8.5 - 12.5	500
		3.2 x 18	12.5 - 14.5	500
		3.2 x 20	14.5 - 16.5	500
4.0 mm	4.1mm	4 x 6	0.5 - 2.5	500
		4 x 8	2.5 - 4.5	500
		4 x 10	4.5 - 6.5	500
		4 x 12	6.5 - 8.5	500
		4 x 16	8.5 - 12.0	500
		4 x 18	12.0 x 14.0	500
		4 x 20	14.0 x 16.0	500
		4 x 25	16.0 x 21.0	500
4.8 mm	4.9mm	4.8 x 6	0.5 x 1.5	500
		4.8 x 8	2.0 x 4.0	500
		4.8 x 10	4.0 x 6.0	500
		4.8 x 12	6.0 x 8.0	500
		4.8 x 16	8.0 x 110	500
		4.8 x 20	11.0 x 15.0	250
		4.8 x 25	15.0 x 20.0	250
6.0 mm	6.1mm	6 x 10	2.5 x 4.5	250
		6 x 12	4.5 - 6.5	250
		6 x 14	6.5 x 8.5	250
		6 x 16	8.5 x 10.5	250
		6 x 20	10.5 x 14.5	250
		6 x 25	14.5 x 19.5	250



Rivet Body: Steel Zinc Plated
Mandrel: Steel Zinc Plated
and yellow Chromated

Blind Rivets Steel / Steel Countersunk 120 deg

Rivet	Hole Dia	Rivet Body D x L mm	Grip Range	Box Qty
			mm	=00
3.2 mm	3.3mm	3.2 x 6	0.5 - 3.0	500
		3.2 x 8 3.0 x 5.0		500
		3.2 x 10	5.0 - 7.0	500
		3.2 x 12	7.0 x 9.0	500
4.0 mm	4.1mm	4 x 6	0.5 x 2.5	500
		4 x 8	2.5 x 4.5	500
		4 x 10	4.5 x 6.5	500
		4 x 12	6.5 x 8.5	500
		4 x 16	8.5 x 12.0	500
		4 x 20	12.0 x 16.0	500
4.8 mm	4.9mm	4.8 x 8	1.5 - 4.0	500
		4.8 x 10	4.0 x 6.0	500
		4.8 x 12	6.0 x 8.0	500
		4.8 x 16	9.5 x 11.0	500
		4.8 x 20	11.0 x 15.0	250
		4.8 x 25	15.0 x 20.0	250



Rivet Body: Steel Zinc Plated
Mandrel: Steel Zinc Plated
Steel Zinc Plated
and yellow Chromated

Rivet Guns

Gesipa NTS (with self opening Spring)



Working Range up to 5mm alu and 4mm Steel

Gesipa NTX



Working Range up to 5mm alu and 4mm Steel

Gesipa SN2 Lazy Tong Riveting Tool



Working Range up to 6.4mm all materials

Gesipa Accubird Rechargeable 12 Volt Battery Riveting Tool



Working Range up to 5mm all materials.

Weight 2.2kg with Battery

Stroke 20mm

Operating Voltage 12V

Traction Power 8.500N

Ordering Options

Accubird and one 12V battery and quick charger in steel case part no 725 0037

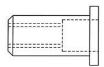
Accubird and one 12V battery and quick charger in cardboard box part no 725 $\,0029$

Accubird and one 12V battery in cardboard box part no 725 0010

Blind Rivet Nuts Alu Standard Dome Head

Rivet	Hole Dia	Rivet Body D x L mm	Grip Range mm	Box Qty
M4	6.1mm	6 x 11.0	0.25 - 3.0	500
		6 x 13.0	2.5 - 4.5	500
M5	7.1mm	7 x 11.5	0.25 - 3.0	500
		7 x 13.5	2.5 - 5.0	500
M6	9.1mm	9 x 15.5	0.25 - 3.5	250
		9 x 18.0	3.0 - 5.5	250
M8	11.1mm	11 x 17.0	0.25 - 3.5	100
		11 x 20.0	3.0 - 6.0	100
M10	12.1mm	12 x 17.5	0.25 - 3.5	100
		12 x 20.5	3.0 - 6.0	100





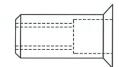
Material:

Alu AlMg 3

Blind Rivet Nuts Alu Countersunk 90 deg

Rivet	Hole	Rivet Body	Grip Range	Box Qty
	Dia	D x L mm	mm	
M4	6.1mm	6 x 12.0	1.5 - 3.5	500
		6 x 13.5	3.0 - 5.0	500
M5	7.1mm	7 x 13.5	1.5 - 4.0	500
		7 x 15.5	3.5 - 6.0	500
M6	9.1mm	9 x 17.0	1.5 - 4.5	250
		9 x 19.0	4.0 - 6.5	250
M8	11.1mm	11 x 18.5	1.5 - 4.5	100
		11 x 20.5	4.0 - 6.5	100
M10	12.1mm	12 x 19.0	1.5 - 4.5	100
		12 x 21.0	4.0 - 6.5	100





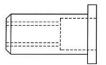
Material:

Alu AlMg 3

Blind Rivet Nuts Steel Standard Dome Head

Rivet	Hole Dia	Rivet Body D x L mm		
M4	6.1mm	6 x 11.0	0.25 - 3.0	500
		6 x 13.0	2.5 - 4.5	500
M5	7.1mm	7 x 11.5	0.25 - 3.0	500
		7 x 13.5	2.5 - 5.0	500
M6	9.1mm	9 x 15.5	0.25 - 3.5	250
		9 x 18.0	3.0 - 5.5	250
M8	11.1mm	11 x 17.0	0.25 - 3.5	100
		11 x 20.0	3.0 - 6.0	100
M10	12.1mm	12 x 17.5	0.25 - 3.5	100
		12 x 20.5	3.0 - 6.0	100



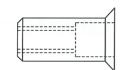


Material: Steel, Zinc Plated & Yellow Chromated

Blind Rivet Nuts Steel Countersunk 90 deg

Rivet	Hole	Rivet Body	Grip Range	Box Qty
	Dia	D x L mm	mm	
M4	6.1mm	6 x 12.0	1.5 - 3.5	500
		6 x 13.5	3.0 - 5.0	500
M5	7.1mm	7 x 13.5	1.5 - 4.0	500
		7 x 15.5	3.5 - 6.0	500
M6	9.1mm	9 x 17.0	1.5 - 4.5	250
		9 x 19.0	4.0 - 6.5	250
M8	11.1mm	11 x 18.5	1.5 - 4.5	100
		11 x 20.5	4.0 - 6.5	100
M10	12.1mm	12 x 19.0	1.5 - 4.5	100
		12 x 21.0	4.0 - 6.5	100

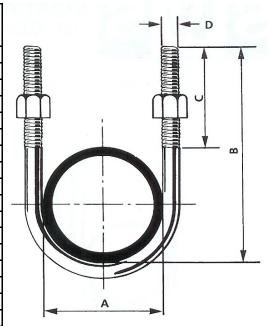




Material: Steel, Zinc Plated & Yellow Chromated

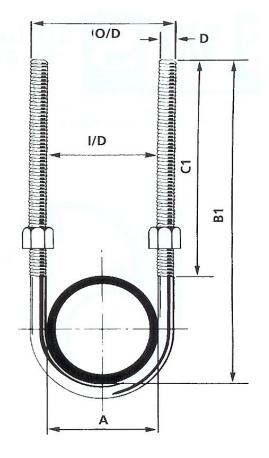
U-Bolts Standard Bright Zinc Plated

Pipe		Dimen-				
Nominal		sions mm				
Bore						
Imperial	Metric	Α	В	С	D	Thread
1.2"	15mm	21	48	30	6	M6
3/4"	20mm	27	53	30	6	M6
1"	25mm	34	60	30	6	M6
1.1/4"	32mm	45	70	40	10	M10
1.1/2"	40mm	51	75	40	10	M10
2"	50mm	60	85	40	10	M10
2.1/2"	65mm	76	100	40	10	M10
3"	80mm	90	115	40	12	M12
4"	100mm	114	140	40	12	M12
5"	125mm	140	165	40	12	M12
6"	150mm	170	200	50	12	M12
8"	200mm	225	244	50	16	M16
10"	250mm	277	315	50	16	M16
12"	300mm	324	360	50	16	M16
14"	350mm	365	435	50	16	M16
16"	400mm	415	495	85	16	M16
18"	450mm	465	535	85	16	M16
20"	500mm	520	595	85	16	M16
22"	550mm	570	645	90	20	M20
24"	600mm	620	695	90	20	M20



U-Bolts Extended Leg Bright Zinc Plated

Pipe		Dimen-				
Nominal		sions mm				
Bore						
Imperial	Metric	Α	B1	C1	D	Thread
1.2"	15mm	21	97	75	6	M6
3/4"	20mm	27	103	75	6	M6
1"	25mm	34	111	75	6	M6
1.1/4"	32mm	45	122	85	10	M10
1.1/2"	40mm	51	127	85	10	M10
2"	50mm	60	140	85	10	M10
2.1/2"	65mm	76	152	85	10	M10
3"	80mm	90	168	90	12	M12
4"	100mm	114	193	90	12	M12
5"	125mm	140	213	90	12	M12
6"	150mm	170	240	90	12	M12
8"	200mm	225	244	298	95	M16
10"	250mm	277	315	349	95	M16
12"	300mm	324	360	387	95	M16



Folded Eyebolts Zinc Plated Screwed 100mm

Thread x Overall Length

M6 x 80mm	M8 x 80mm	M10 x 80mm
M6 x 100mm	M8 x 100mm	M10 x 100mm
M6 x 150mm	M8 x 150mm	M10 x 150mm
M6 x 200mm	M8 x 200mm	M10 x 200mm
M6 x 250mm	M8 x 250mm	M10 x 250mm
M6 x 300mm	M8 x 300mm	M10 x 300mm

Also available in stainless steel

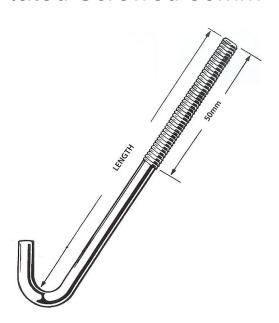


Hook Bolts Zinc Plated Screwed 50mm

Thread x Overall Length

M6 x 40mm	M8 x 40mm	M10 x 40mm
M6 x 50mm	M8 x 50mm	M10 x 50mm
M6 x 60mm	M8 x 60mm	M10 x 60mm
M6 x 70mm	M8 x 70mm	M10 x 70mm
M6 x 80mm	M8 x 80mm	M10 x 80mm
M6 x 100mm	M8 x 100mm	M10 x 100mm
M6 x 120mm	M8 x 120mm	M10 x 120mm
M6 x 130mm	M8 x 130mm	M10 x 130mm
M6 x 150mm	M8 x 150mm	M10 x 150mm
M6 x 180mm	M8 x 180mm	M10 x 180mm
M6 x 200mm	M8 x 200mm	M10 x 200mm
M6 x 230mm	M8 x 230mm	M10 x 230mm
M6 x 250mm	M8 x 250mm	M10 x 250mm
M6 x 270mm	M8 x 270mm	M10 x 270mm
M6 x 300mm	M8 x 300mm	M10 x 300mm

Also available in stainless steel



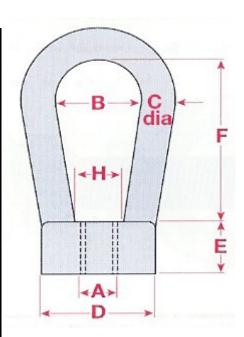
Open Body Turn Buckles Bright Zinc Plated

6mm	Variants	
8mm		
10mm	Hook & Eye	
12mm	Hook & Hook	
16mm	Eye & Eye	
20mm		

Also available in stainless steel

Bow Nuts to BS3974 Part 1

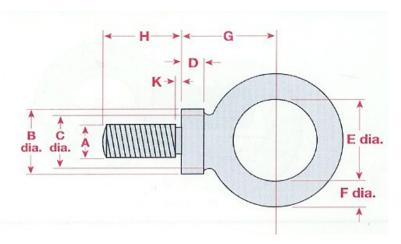
	Dimen- sions						
SWL Tonnes	Α	В	С	D	Е	F	Н
0.23	M6	25	10	32	16	38	18
0.23	M8	25	10	32	16	38	18
0.36	M10	25	10	32	16	38	18
0.53	M12	30	12	38	18	43	20
1.01	M16	30	12	38	18	43	20
1.58	M20	40	14	45	25	63	25
1.93	M22	50	17	50	28	79	30
2.28	M24	50	17	50	28	79	30
3.65	M30	75	26	70	38	82	46
4.49	M33	75	26	70	38	82	46
5.34	M36	75	26	70	38	82	46
7.40	M42	100	30	80	45	105	59



Available Untested or Tested and Certified

Dynamo Eyebolts to BSS4278 Tbl 3 1984

Tested and Certified



	Dimen- sions								
SWL Tonnes	А	В	С	D	E	F	G	Н	K
0.23	M10	17	14	5	22	9	27	18	3
0.23	M12	17	14	5	22	9	27	18	3
0.63	M16	23	18	6	29	11	34	23	3
1.25	M20	32	25	9	40	15	47	32	5
2.00	M24	40	32	12	51	19	60	40	6



Permabond A1042 Threadlock - 50ml Permabond A1046 Bearing/High Permabond A118 Retainer 50ml Bottle 0957a11850ml Permabond A126 50ml Bottle Permabond A131 Pipe Sealant 50ml Permabond A136 Ready Gasket 50ml Permabond A145 50ml tube (single) Permabond A905 Activator 200ml

C2010 x 20g Cyanoacrylate Plus Permabond C2 Super Glue 3g Tubes Permabond C2 Super Glue 50g Bottle Permabond C791 x 20g Permabond C792 x 20g

Contact Adhesive 1 Litre Contact Adhesive 5 Litre Contact Adhesive 500ml

Permabond E01 25ml Syringe Permabond ESP110 320ml Permabond F241 Toughened Acrylic Permabond F246 Toughened Acrylic Permabond King Solvent for QB5002 Permabond FE Rapid 400ml Permabond Initiator No1 35ml Permabond Initiator No5 35ml

Loctite Superflex White Sealant 80g Loctite Detach Glue Remover

Nozzels for 5002 Permaclean II General Purpose Polyflex Mastic 310ml PVÁ Wood Glue - 5 litre PVA Wood Glue 1 Litre 250ml Waterproof Resin W

Permabond QB5002 Quickbond- 380ml 0957qb5002380ml Permabond QB5002 Quickbond - 50ml 0957qb500250ml





0957a104250ml 0957a104650ml 0957a12650ml 0957a13150ml 0957a13650ml 0957a14550mls 0957a905190g

0957c201020g 0957c203g 0957c250g 0957c79120g 0957c79220g

0957contact01l 0957contact05l 0957contact50ml

0957db025 0957esp110320ml 0957f241320ml 0957f24650ml 0957f5002solvent 0957ferapid400ml 0957init0135ml 0957init0535ml

0957loc13732 0957locdetach

0957noz5002 0957permaclean400 0957polyflex310ml 0957pva05l 0957pva1l 0957pvaresinW



- Replaces conventional gaskets
- Reduces inventory
- Fills gaps up to 0.025"
- Easy disassembly

Adhesives





- Eliminates press fits
- Stops corrosion
- Mounts bearings
- Restores correct fit



- Locks bolts
- Prevents tampering
- Stops corrosion
- Seals welds



- Seals threaded pipe
- Seals nicked threads
- Disassembles easily
- Certified by NSF & UL listed

Site Equipment



2ft Fluorescent

IP65 Rated 2 x 36W 2 x 16amp Outlet 5M Cable with Fitted Plug

RSR Part No.0972e708670



2ft & 4ft Uplights

Self righting light that can take a knock. 5m Cable with Fitted Plug 16amp Power Take Off

2ft RSR Part No.0972e712140 4ft RSR Part No.0972e712050



500w Fixed Leg Tripod

500w Halogen Fitting Tough Oval Design 5m Cable with Fitted Plug

RSR Part No.0972e702510



2ft Fluorescent Tripod

IP65 Rated 2 x 36W 2 x 16amp Outlets 5M Cable with Fitted Plug

RSR Part No.0972e708625



Festoon Kit

10 x 60W Bulb 22m Cable Inc. Cages and bulbs

RSR Part No.0972bc89820



Gripper Hand Lamp

60w Bulb 5M Cable with Fitted Plug

RSR Part No.0972e89785



4-Way Spider Box

4 x 16amp Outlets 5M Cable with Fitted Plug

RSR Part No.0972e13104



4-Way Spider Ball

4 x 16amp Outlets Tough GRP Case 5M Cable with Fitted Plug

RSR Part No.0972



3.3KVA Transformers

2 x 16amp Outlets 5M Cable with Fitted Plug 1500VA Continuous Rating

RSR Part No.0972e203012



Site Store

1400mm x 800mm x 1240mm 2.5mm Sheet Steel 2 x 5 Lever Dead Locks Weight 173kg

RSR Part No.0972s10010



16amp Plugs

110v RSR Part No.0972e881825 230v RSR Part No.0970e881826

16amp Socket

110v RSR Pt No.0972e883141 230v RSR Pt No.0972e883143



Van Vault 4

1234mm x 700mm x 690mm 2mm Sheet Steel 2 x 70mm Disc Lock Weight 60kg

RSR Part No.0972s10014



25M Site Cable Reels

25M 1.5mm Cable 2 x Outlets

110v RSR Part No.0972e86210 230v RSR Part No.0970e86205

Site Equipment



Van Vault 2

920 x 555 x 490mm 2mm Sheet Steel 70mm Disc Lock Weight 46kg

RSR Part No.0972s10100



14M Extension Leads

Arctic Grade Cable Fitted Plug & Socket

110v 1.5mm RSR Part No.0972e85111 110v 2.5mm RSR Part No.0972e85121

230v 1.5mm RSR Part No.0970e85222 230v 1.5mm RSR Part No.0970e85222



Air Raid 800

860W Motor Variable Speed 14,000—18,000 M Sqr Per Hour

110v RSR Part No 0972hlr800/110

230v RSR Part No 0970hlr800/240



Rhino 3 Infra Red Heater

2 x 1400w Infra-red Elements 2 Heat Settings Wheels for easy mobility 5M Cable & Fitted Plug 14.3 Kg 110v or 230v

110v RSR Part No.0972h029100 230v RSR Part No.0972h029110

Wheel Barrows & Contractors Tools

Contractor Integral 85ltr

The revolutionary contractor barrow with the integral registered design, the toughest budget barrow.

20 gauge steel, Powder Coated Black Finish

RSR Part No: 0994 wheelbcontractors1



Yard Galvanised 110ltr

Heavy duty deep draw galvanised pan for heavy duty concrete/ yard/ garden work

16 gauge steel, Galvanised Pan

RSR Part No: 0994 wheelbyardgalv



Budget Contractors No2 Shovel

The budget No2 square shovel with a PYD handle.

RSR Part No: 0994 spec02ey



7lbs Sledge Hammer

7lbs Double faced bright sledge hammer 30" hickory handle.

RSR Part No: 0994 sp07df30



14lbs Sledge Hammer

14lbs Double faced bright sledge hammer 36" hickory handle.

RSR Part No: 0994 sp14df36





D21721K 701 Watts Percussion Drill

Chuck Capacity 1.5-13 mm Power Input 650

No Load Speed 0-1100 / 0-2600 rpm Blows Max Torque 30/12 Nm

per Minute 0-19000 / 0-44200 bpm Max. Drilling Capacity [Wood] 40/25 mm Max. Drilling Capacity [Steel] 13 mm Max. Drilling Capacity [Concrete] 16 mm Spindle Thread 1/2" x20 U.N.F. Weight 2.1 kg Length 330 mm Height 199 mm



DW21810KS 650 Watt single speed Percussion

Chuck Capacity 1.5-13 mm Power Input 770 Watts

Max Torque 40/20 Nm No Load Speed 0-1100 / 0-2700 rpm Blows

per Minute 0-18700 / 0-45900 bpm Max. Drilling Capacity [Wood] 35 mm Max. Drilling Capacity [Steel] 13 mm Max. Drilling Capacity [Concrete] 20 mm Spindle Thread 1/2" X 20 U.N.F

Weight 2.3 kg Length 352 mm Height 199 mm



D25002K SDS Hammer Drill

Power Input 600 Watts Power Output 380 Watts

No Load Speed 0-1100 rpm Blows per Minute 0-4000 bpm

Impact Energy 0-2.4 J Tool Holder SDS-Plus

Max. Drilling Capacity [Wood] 30 mm Max. Drilling Capacity [Metal] 13 mm Max. Drilling Capacity [Concrete] 22 mm Max. Drilling Capacity [Core bit] 65 mm

Weight 2.3 kg Length 360 mm



DW25404k Heavy Duty SDS Hammer Drill

Power Input 900 Watts Power Output 550 Watts

No Load Speed Blows per Minute 0-4100 bpm 0-730 rpm

Impact Energy 0-4.8 JTool Holder SDS-Plus

Max. Drilling Capacity [Wood] 40 mm Max. Drilling Capacity [Metal] 16 mm Max. Drilling Capacity [Concrete] 6-32 mm Max. Drilling Capacity [Core bit] 90 mm

Weight4.8 kg



DW25940k 10kg Demolition Hammer

Power Input 1600 Watts Power Output 790 Watts Hand/Arm Vibration 11.8 m/s2 Blows per Minute 1620 bpm Impact Energy 30.6 J Tool Holder (Hex) 19mm Weight 12.85 kg Length 720 mm Height 250 mm





DC980KA 12 Volt Drill / Driver

Voltage 12 V Battery NiCd 2.4 Chuck Capacity 1.5-13 mm Power Output 300 Watts No Load Speed 0-450 / 0-1400 / 0-1800 rpm Max. Torque 45 in-lbs Max. Drilling Capacity [Wood] 38 mm Max. Drilling Capacity [Metal] 13 mm Spindle Thread

Weight 2.2 kg Length 254 mm Height 241 mm



DC940KB 12 Volt Mid-Handle Drill / Driver

Voltage 12 V Battery NiMH 2.6 Ah

Chuck Capacity 1.5-13 mm

Power Output 310 Watts No Load Speed 0-450 / 0-1450 / 0-1800 rpm Max. Torque 48 in-lbs Max.

Drilling Capacity [Wood] 38 mm Max.

Drilling Capacity [Metal] 13 mm

Spindle Thread

Weight 2.3 kg Length 261 mm Height 245 mm



DC987KA 18.0 Volt Mid Handle Drill / Driver

Voltage 18 V Battery NiCd 2.4

Chuck Capacity 1.5-13 mm Power Output 420 Watts

No Load Speed 0-450 / 0-1450 / 0-2000 rpm Max.

Torque 52 in-lbs Max.

Drilling Capacity [Wood] 50 mm Max.

Drilling Capacity [Metal] 13 mm

Spindle Thread

Weight 2.6 kg Length 254 mm Height 241 mm



DC925KB 18.0 Volt Heavy Duty Hammer

Voltage 18 V Battery Capacity NiMH 2.6 Ah

Chuck Capacity 1.5-13 mm

Power Output 470 Watts

No Load Speed 0-450 / 0-1500 / 0-2000 rpm Beats per Minute 0-7650 / 0-25500 / 0-34000 bpm

Max Torque 56 Nm Max.

Drilling Capacity [Wood] 50 mm Max.

Drilling Capacity [Metal] 13 mm Max.

Drilling Capacity [Masonry] 16 mm

Weight 2.8 kg Length 270 mm Height 245 mm



DC222KA 24.0 Volt Heavy Duty SDS-Plus Hammer

Voltage 24V V Battery Capacity NiCd 2.0 Ah

Power Output 300 Watts

No Load Speed 1100 rpm Impact Energy 2.1 J

Blows per Minute 4200 bpm

Tool Holder SDS-Plus

Max. Drilling Capacity [Wood] 30 mm Max.

Drilling Capacity [Metal] 13 mm Max.

Drilling Capacity [Concrete] 22 mm

Weight 3.8 kg Length 290 mm Height 240 mm





DW303k Reciprocating Saw

Power Input 701 Watts
Power Output 350 Watts
No Load Stroke Rate 0-2400 spm
Stroke Length 29 mm

Max. Cutting Capacity [Wood] 280 mm

Max. Cutting Capacity [Steel Sections & Pipes] 100 mm

Max. Cutting Capacity [PVC] 130 mm

Weight 5.6 kg Length 425 mm Height 178 mm



D23550 55mm Depth of Cut Heavy Duty Saw

Power Input 1050 Watts

Power Output 570 Watts No Load Speed 5000 rpm

Blade Diameter 165 mm

Blade Bore 20 mm Bevel Capacity 45 $^{\circ}$

Max. Depth of Cut at 90° 55 mm

Max. Depth of Cut at 90°[with guide rails] 51 mm

Max. Depth of Cut at 45° 41 mm

Max. Depth of Cut at 45°[with guide rails] 37 mm Weight 3.3 kg Length 270 mm Height 215 mm



D23620K 65 mm Depth of Cut Circular Saw

Power Input 1150 Watts Power Output 570 Watts No Load Speed 5000 rpm

Blade Diameter 184 mm Blade Bore 16 mm

Bevel Capacity 50 °

Max. Depth of Cut at 90° 65 mm

Max. Depth of Cut at 90°[with guide rails] N/A mm

Max. Depth of Cut at 45° 45 mm

Max. Depth of Cut at 45°[with guide rails] N/A mm Weight 5.1 kg Length 315 mm Height 250 mm



DW333K Heavy Duty Body Grip Jigsaw

Power Input 701 Watts

Power Output 445 Watts No Load Stroke Rate 800-3100 spm

Stroke Length 26 mm Bevel Capacity 45 °

Max. Cutting Capacity [Wood] 135 mm Max. Cutting Capacity [Steel] 12 mm

Max. Cutting Capacity [Non Ferrous Metal] 30 mm Weight 2.8 kg Length 265 mm Height 210 mm



DW331K Heavy Duty Top Handle Jigsaw

Power Input 701 Watts Power Output 445 Watts No Load Stroke Rate 0-3100 spm

Stroke Length 26 mm Bevel Capacity 45 °

Max. Cutting Capacity [Wood] 135 mm Max. Cutting Capacity [Steel] 12 mm

Max. Cutting Capacity [Non Ferrous Metal] 30 mm Weight 2.8 kg Length 250 mm Height 210 mm





DW871 355mm Abrasive Chop Saw

Power Input 2200 Watts
Power Output 1350 Watts
No Load Speed 3800 rpm
Wheel Diameter 355x2.5 mm

Max. Cutting Capacity at 90° [Square Profile]

Max. Cutting Capacity at 90° [Rectangular Profile]

Max. Cutting Capacity at 90° [L-Shape Profile]

Max. Cutting Capacity at 90° [Rounded Profile]

Max. Cutting Capacity at 45° [Square Profile]

Max. Cutting Capacity at 45° [Rectangular Profile]

Max. Cutting Capacity at 45° [Rectangular Profile]

Max. Cutting Capacity at 45° [L-Shape Profile]

Max. Cutting Capacity at 45° [Rounded Profile]

Max. Cutting Capacity at 45° [Rounded Profile]

Max. Cutting Capacity at 45° [Rounded Profile]



DW872 14" Tungsten Carbide Metal Cutting Saw

Power Input 2200 Watts
Power Output 1350 Watts
No Load Speed 1300 rpm
Wheel Diameter 355 mm

Max. Cutting Capacity at 90° [Square Profile]

Max. Cutting Capacity at 90° [Rectangular Profile]

Max. Cutting Capacity at 90° [L-Shape Profile]

Max. Cutting Capacity at 90° [Rounded Profile]

Max. Cutting Capacity at 45° [Square Profile]

Max. Cutting Capacity at 45° [Rectangular Profile]

Max. Cutting Capacity at 45° [Rectangular Profile]

Max. Cutting Capacity at 45° [L-Shape Profile]

Max. Cutting Capacity at 45° [Rounded Profile]

Max. Cutting Capacity at 45° [Rounded Profile]

Max. Cutting Capacity at 45° [Rounded Profile]



D28113 115mm Medium Angle Grinder

Power Input 900 Watts
No Load Speed 10000 rpm
Max. Disc Diameter 115 mm
Spindle Thread M14
Weight 2.1 kg Length 285 mm Height 80 mm



DW28490 230mm Heavy Duty Angle Grinder

Power Input 2000 Watts
Power Output 1054 Watts
No Load Speed 6500 rpm
Max. Disc Diameter 230 mm
Spindle Thread M14
Weight 5.5 kg Length 490 mm Height 151 mm



DW702 Heavy Duty Mitre saw

Power Input 1600 Watts
Blade Diameter 250 mm
Bevel Capacity - ° Mitre Capacity [right/left] 50/50 °
Cutting Capacity at 90°/90° (W x H) 95x89 mm
Cutting Capacity at 45°/90° (W x H) 162x41 mm
Cutting Capacity at 45°/90° (W x H) 67x89 mm
Cutting Capacity at 45°/90° (W x H) 114x41 mm
Depth of Cut [Saws] 89 mm
Weight 14.8 kg Depth 620 mm Length 510 mm Height 570 mm





GBH 2-26DFR Variable Speed Rotary Hammer

Rated power input: 800 W Impact energy: 0 – 3 J

Impact rate at rated speed: 0 – 4.000 rpm

Rated speed: 0 – 900 rpm Rated torque: 28 Nm Weight: 2,7 kg Toolholder: SDS-plus



GBH 4 DFE Variable Speed Rotary Hammer

Impact/Rotation Stop
Quick Change Chuck, Carrying Case
Power Input 750W
No Load Speed 0-650 rev/min
Impact Rate/Force 0-3900/min 3.5J, Tool Holder SDS plus
Weight 3.9kg
Drilling Capacity Concrete 30mm

Masonry 80mm



GBH 4 DSC SDS Plus Combi-hammer

Rated power input: 750 W Impact energy: 1 – 3,5 J Power output: 440 W

Impact rate at rated speed: 1.650 – 3.900 rpm

Rated speed: 280 – 650 rpm Rated torque: 20 Nm Weight: 5,9 kg Number of needles: 19

Usable needle length: 60 mm Toolholder: SDS-plus



GSR 14-2 14V Drill/Driver

Torque, max. (hard screwdriving applications): 30 Nm

No-load speed, 1st gear: 0 – 400 rpm No-load speed, 2nd gear: 0 – 1.400 rpm

Torque, max. (soft screwdriving applications): 11 Nm

Battery type: NiCd

Chuck jaw width, min./max.: 1 / 10 mm

Battery voltage: 14,4 V Battery capacity: 1,5 Ah Charging time, approx.: 60 min



GSB 14.4VE-2 14.4V Combination Cordless Drill

Torque, max. (hard screwdriving applications): 65 Nm Torque, max. (soft screwdriving applications): 28 Nm

Impact rate, max.: 29.000 rpm

Chuck jaw width, min./max.: 1,5 / 13 mm

Drill spindle thread: 1/2" Torque settings: 25+1

Battery voltage: 14,4 V

Weight including battery, approx.: 2,80 kg

Quick change chucks: 13 mm Charging time, approx.: 30 min

Max. drilling diameter in wood: 40 mm Max. drilling diameter in steel: 13 mm Max. drilling diameter in masonry: 14 mm



Invented for life

Carrying Case, Variable Speed



GBH 24V 24V Cordless Rotary Hammer

No Load Speed 0-1000 rev/min
Drilling Performance Concrete 4-20mm; Wood 20mm; Steel 10mm
Spindle Collar 42mm
Tool Holder SDS-plus
Battery Capacity 2.0Ah
Weight (inc battery pack) 3.8kg
Comes complete with 1-hour charger,
2 x 2.0Ah battery pack, auxiliary handle, depth stop,
Electric Motor Brake, Reverse



GSB24 VE-2 Heavy Duty Cordless Drill \ Driver

Drilling Performance Concrete 16mm; Wood 38mm; Steel 16mm Max Screw Diameter 12mm
Quick change chuck 13mm
Battery Capacity 2.0Ah
Weight (inc battery pack) 3.2kg
Comes complete with 1-hour charger,
15 Torque Settings
Electric Motor Brake, Reverse
Variable Speed



GST 75 BE Heavy Duty Jigsaw

Rated power input: 650 W

No-load stroke rate: 500 – 3.100 rpm Power output: 360 W Weight: 2,3 kg

Cable length: 2,5 M Stroke height: 23 mm Cutting depth in wood: 90 mm

Cutting depth in wood, 90 mm

Cutting depth in aluminium: 20 mm

Cutting depth in unalloyed steel: 10 mm



GSA 800PE Sabre Saw

Rated power input: 800 W

No-load stroke rate: 500 - 2.600 rpm

Weight: 3,4 kg

Saw, stroke length: 28 mm

Cutting depth

Cutting depth in wood: 220 mm

Cutting depth in metal profiles and metal pipes: 20 mm



GEX 150 Turbo 150mm Random Orbital Sander

Sanding plate diameter: 150 mm No-load speed: 3.100 – 6.650 rpm Orbital stroke rate: 6.200 – 13.300 rpm Sanding plate speed: 290 – 620 rpm

Eccentricity: 2,25 mm

Sanding sheet / disc attachment: Velcro-type fastening

Rated power input: 600 W

Weight: 2,4 kg

Oscillating circuit diameter: 4,5 mm



Invented for life



GSR 6-25 TE Professional

Rated power input: 701 W

Torque, max. (soft screwdriving applications): 20 Nm

Power output: 355 W

No-load speed: 0-2.500 rpm

Weight: 1,45 kg Rated torque: 2,3 Nm Screwdriving

Drilling screws diameter: 6,0 mm



BL 2L Laser Level

Laser diode: 635 nm, < 1 mW Operating temperature: -20 – 50 °C Storage temperature: -20 – 70 °C

Laser class: 2

Working range: 10 M

Levelling accuracy: ± 0,3 mm/m Self-levelling range: ± 4°

Dust and splash guard: IP 54 Power supply: 3 × 1.5 V LR6 (AA) Operating duration, approx.: 12 H

Tripod connection: 1/4" Length: 118 mm Width: 57 mm



GBS 75 AE Set

Belt speed: 200 – 330 m/min Grinding surface, width: 75 mm

Belt, length: 533 mm Belt, width: 75 mm Rated power input: 750 W Power output: 410 W Weight: 3,4 kg



GWS 8-115 4 1/2" Mini Grinder

Rated power input: 800 W No-load speed: 11.000 rpm Power output: 500 W Grinding spindle thread: M 14 Disc diameter: 115 mm

Rubber sanding plate, diameter: 115 mm Wire cup brush, diameter: 70 mm Length: 286 mm Height: 106 mm

Weight: 1,5 kg



GWS 20-230 9" Angle Grinder Rated power input: 2.000 W

Rated power input: 2.000 W No-load speed: 6.500 rpm Grinding spindle thread: M 14

Main handle: Shaft Disc diameter: 230 mm

Weight: 4,2 kg



Cable Ties & Bases

Cable Tie Bases

Self-adhesive Nylon 6.6 cable tie bases.

Entry from four sides to facilitate error-free mounting.

To ensure complete security where excessive stress or vibration is likely to occur, a screw mounting hole is provided on the HFC 2/4.

Available in either natural or black colour.

Packed in 100's

HFC 1/4 20 x 20mm 4 way Max Cable Tie Width 4.0mm HFC 2/4 28 x 28mm 4 way Max Cable Tie Width 5.0mm.



One-piece molded nylon 6.6 non-releasable cable ties.

Bent finger grip and low threading force for quick installation.

Smooth rounded edges.

Available colours: natural or black.

Also available in Stainless Steel



Length	Diameter	Minimum Tensile Strength Kg
80mm	2.4	8
100mm	2.5	8
120mm	4.8	22
140mm	3.6	13
160mm	2.5	8
160mm	4.8	22
200mm	2.5	8
200mm	3.6	13
200mm	4.8	22
250mm	4.8	22
300mm	3.6	13
300mm	4.8	22
370mm	4.8	22
430mm	4.8	22
150mm	7.6	55
240mm	7.6	55
300mm	7.9	55
370mm	7.6	55
430mm	9	75
530mm	9	75
710mm	9	75
580mm	12.7	113
1030mm	12.7	113

TT 1 Cable Tie Tool

Automatic cable tie tensioner and cutter.
For cable ties from 2.2mm to 4.8mm wide.
This tool is very durable due to its quality construction and metal body.
Suitable for continuous use.
Length 160mm
Weight 0.30kgs



SSTG Cable Tie Tool

Automatic cable tie tensioner and cutter for Partex stainless steel cable ties.

The SSTG tool can be used with any of the Partex stainless steel ties including the coated range.

High quality construction for a long service life.

Length 178mm

Weight 0.56kgs



Plastic Packers

Horse Shoe Plastic Packers 40 x 45mm

1mm	Yellow	0528mm45055yellow
1.5mm	White	0528mm45055white
2mm	Green	0528mm45055green
3mm	Blue	0528mm45055blue
4mm	Red	0528mm45055red
6mm	Black	0528mm45055black
10mm	Grey	0528mm45055grey

Also available in a bag of 1000 assorted packers



Flatpackers 100mm x 24mm

1mm	Green	0528fl24gr
2mm	Black	0528fl24bl
3mm	White	0528fl24wh
4mm	Grey	0528fl24gr
5mm	Blue	0528fl24bl
6mm	Red	0528fl24re



Flatpackers 100mm x 28mm

1mm	Green	0528fl28gr
2mm	Black	0528fl28bl
3mm	White	0528fl28wh
4mm	Grey	0528fl28gr
5mm	Blue	0528fl28bl
6mm	Red	0528fl28re



Starrett HSS Hacksaw Blades



Ideal when the blade is not subject to bending and twisting stresses.

Uniformly hardened blade holds the edge when cutting hard-to-machine alloys, maintaining the straightness of the cut.

Length x Width x Thickness (mm / inches)

12" x 1/2" x 0.025" 18 TPI 12" x 1/2" x 0.025" 24 TPI 12" x 1/2" x 0.025" 32 TPI

Junior Hacksaw Blades (Pack of 10)

Tapes

Electrical Tape



Electrical Insulating Tape (Sparks Brand) is a top quality plasticised PVC film particularly suitable for all general purpose electrical work, such as insulation and component construction.

It is available in a wide range of colours which makes it a must for colour coding and identification purposes. The competitive price also enables its use in low cost operations such as bundling, aerial rigging, loom harnessing etc.

Also know as electricians tape, insulating tape, pvc tape. 19mm x 33Mtr rolls

Colours Black, Red, Green, Blue, White,

Regal, Orange & Grey

Gaffer Tape (Duct Tape)



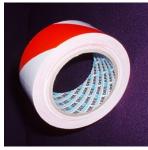
Performance Brand Economy Gaffer Tape, ideal for securely laying cables to Stage, Studios, Exhibition Centres, Bundling poles and tubes. Repairing canvas and trailer tops. Sealing plaster-boards seams.

Min Order Qty: 1

Dimension: 25mm x 50M

Colours Black, Silver & White

Warning Tape





Red and White diagonals

Ideal for marking out the location of all fire-fighting equipment including: Fire alarms, extinguishers, buckets, hydrants, hose-reels, valves and pumps. Buttons, handles, wires, etc.,

Dimension: 50mm x 33M Colour: Red/Whitea

Black with Yellow diagonals

can be used on containers for radio-active substances. Inside equipment casing or machinery guards where danger exists, in such a way as to indicate when the enclosure is not complete. To highlight low headroom due to structures, pipes etc. Obstructions which must be avoided. Changes in floor levels and other similar tripping hazards. Mobile equipment which may cause a hazard.

Dimension: 25mm x 33M Colour: Black/Yellow

Masking Tape



This masking tape, Topper Brand, is one of our Best Sellers. It is a multi-purpose 'economy grade' which will satisfy all general purpose requirements such as: stencilling for sand blasting, non production painting or spraying of woodwork, metal, glass, plastic etc.

Dimension: 36mm x 50M

Health & Safety, Site Equipment

First Aid



Description

Eve Wash Solution 20ml Bottles Eve Wash Solution Boxed 25 Eye Wash Solution 500ml Bottle Eye Wash Station Plasters Box of First-Aid Kit (1-10 Persons) First-Aid Kit (50 Persons)

Part No

0967eyesolution 096725eyewash 0967eyewash500ml 0967eyewash 0967plasters 09491-10 094950

Stanley Chalk lines



Description Chalk Line Stanley 100ft Chalk Line - 30 metres Replacement Line Blue Chalk Dust Refill Red Chalk Dust Refill White Chalk Dust Refill Yellow Chalk Dust Refill

Part No 0952100ft 0952chalkline 0952replaceline 0952refilblue115gm 0952refilblue115gm 0952whiterefil115gm 0952refilyellow115gm

Site Clothing

Description Boiler Suit Bottle Green Large Boiler Suit Poly Cotton Royal Navy 0967boilersuitbluel Rain Suit Large Rain Suit Medium Waistcoat Fluorescent Yellow Waistcoat Fluorescent Orange

Part No 0990boillerbottle 0990eskirainsuitl 0990eskirainsuitm 0990flrwctxlsqlbn 0990flrwaistcoats

Gloves Perfect Fit



Description

Gloves Box of 100 Low Allergy Gloves Canadian Riggers Gloves Cotton Drill - Mens Size Gloves Grip EN388 - Large Gloves Latex Disp. - Large.(100) Gloves Orange Gripper Gloves Perfect Fit Gloves PVC Knit Wirst Handpro GlovesYellow Rubber GlovesYellow Split Rigger

Part No

0948lowallergy 0948rigger 0948cottondrill 0948gripglove 0948latexdisplge 0948orangegripper 0968perfectfitblack 0968pvcknitwrist 0948rubber 0948riggerysplit

Brooms



Description 12" Soft Broom with Handle 18" Hard Brooms with Handle 18" Soft Brooms with Handle 24" Soft Brooms with Handle 24" Hard Brooms with Handle 36" Platform Broom Handle

Part No 099512soft 099518hard2 099518soft 099524soft 099524stiff 099536platform

Helmets & Goggles

Description Part No Goggles - BSEN166.1.B 0967safety1 Goggles - Safety Specs EN166.1F 0967safety2

Helmets Executive White Helmets White Safety

0990helmetexec 0990whitehelmet

Site Equipment

Padlocks



A full range of quality brass padlocks, they offer reliable security from 19mm to 60mm body width.

All internal components are manufactured from corrosion free materials.

3/4" **Brass Padlocks Brass Padlocks** 1" 1.1/2" Brass Padlocks **Brass Padlocks** 2.1/2" Bras Padlocks

1.1/2" Extended Leg Padlocks

High Security Padlocks

Ropes, Sheeting & Bags



Builders Bags 22" x 35" x 600g HD

09442235600

Bin Liners White Plastic Pack 100 Bin Liners Black Plastic Refuse Bags

0944binlinerw 0944blackplastic

Poly Sheeting 4Mtr x 1000g x 25Mtr

0944M41000M25

Pallet Shrink Wrap Roll

0967shrink

Rope 6mm x 220M Polypropylene

0967rope06mm220m

Tarpaulin 5M x 3.96M Heavy Duty

0967tarpM5M3.96

Misc



Description

Bin 94 Litre Black Plastic Bleach 5 litres Canteen Bench Cloths Box of 10 antistatic Polystyrene Foam Cups (1000) Cream Cleaner 500ml Detergent 5 Litre Disinfectant 5 litre Dust Sheet 12 x 9 Large Cotton Eski Shift Multi Purpose Cleaner Hand Cream J Cloth Packed 50s Jeyes Fluid 5 Litre Kettle 240 Volt Site Liquid Soap Carex Liquid Soap Dispenser Mop Bucket Plastic Mop Handle Mop Head Paper Hand Towels 156183 Paper Towel Holder Dispenser Paper Towels Pack of 2880 Paper Towels Small Pack Rags Box of Mixed Roll of 2 Ply Paper Towels 19767X 0967paper2ply Roll of Mutton Cloth Soap 5 Litre Liquid Soap 5 Litre Liquid Soap Bar of Soap Box of 72 Bars Sugar Tate & Lyle 2kg Bags Tea Mugs Tea Spoons St St

Tea Towels

Tissue Paper

Yellow Dusters

Toilet Cleaner 1 Litre

Toilet Rolls Case of 36

Urinal Cubes Box of 36

Washing Up Liquid 1 Litre

Toilet Brush

Part Number

0967bin80l 0967bleach 0967canteenbench 0967antistaticcloths 0967polycups 0967cleaner500ml 0967detergent5l 0967disinfectant 0967dustsheet 0967eskishift1ltr 0967eskihandcream 0967Jcloth 0967jeyes 0967kettle 0967doveliquidsoa 0967soapdispenser 0967mopbucket 0967mop/handle 0967mophead 0967paper156183 0967paperdisp 0967paper2880 0967paperpack 0967rags 0967mutton 09675ltreliqusoap 0967liquidsoap5lt 0967soapbar 0967soapbox 0967sugar 0967teamugs 0967teaspoons 0967teatowels 0967tissuepaper 0967toiletbrush 0967eskiloo1ltr 0967toiletrolls 0967urinalcubes 09671ltrwashup 0967duster

Ladders & Access Equipment

Glass Fibre Swingback Stepladders

Certified to BSEN131 Non-slip treads & rubber feet Non-Conductive Light weight and easy to carry Plastic tool tray

TreadsOp	oen Height	Closed HeightWeight	
3	0.58m	0.66m	3.25kg
4	0.81m	0.89m	4.25kg
5	1.03m	1.14m	4.75kg
6	1.26m	1.38m	5.50kg
8	1.70m	1.86m	7.50kg
10	2.10m	2.17m	9.00kg
12	2.34m	2.57m	10.50kg



Folding Tower System

Base can be used alone, or increased by a further 3 lifts which can give an extra 7 platform heights (using extra components)

Tested and certified to BS1139 (Part 3) 1994 and HD1004 *

Fits easily into most small vans or estate cars

Quick and easy to erect – saving time on each job

Narrow tower width - compact & easy storage

Quick release pull rings with stainless steel pin on all bracings for easy assembly

Smooth & ribbed texture on braces for quick identification

Please remember - a thorough risk assessment must be carried out prior to any work being undertaken at height

125mm Locking castors

1.5m base unit (inc 1 x 1.8m Hatch Deck)

Platform Heights 0.6m, 1.6m, 2.1m, 3.1m, 3.6m, 4.6m, 5.1m, 6.1m



Podium Steps

Meets all the requirements of the new Working at Heights Regulations - this item provides an excellent alternative to step ladders.

The work platform offers massive safety: 1000mm all round lockable guardrail system with non-slip platform surface - even in the rain. 'Locking' 360° rotating wheels, for added safety & stability.

Offers flexibility for working in all locations - folds up in seconds & fits through a standard door way back of vans or on a roof rack. It is self contained in one piece & can easily be handled by one person.

Manufactured from aluminium is a lightweight product, durable and will provide an exceptional work tool for all users.

Offers 4 platform levels: 460mm, 710mm, 960mm and 1210mm.

Height 1 1200mm 1830mm 650mm

Height 2 1200mm 2210mm 650mm 41kg (with expansion pack)



Paints and Accessories

Paint Brushes



Description	Part No
Paint Brushes 1"	0947in16
Paint Brushes 1.1/2"	0947in24
Paint Brushes 1/2 "	0947in08
Paint Brushes 2"	0947in32
Paint Brushes 2.1/2"	0947in40
Paint Brushes 3"	0947in48
Paint Brushes 4"	0947in64
Paint Brushes 6"	0947in06

Paint Rollers



Description Part No Roller 7" & Tray Kit Roller 9" & Tray Kit 0947rollerkit7 0947rollerkit Radiator Roller Kit 0947roller Roller 7" Spare 0947spare7roller Roller 9" Spare 0947spare9roller Roller Radiator Spare 0947spareradroller Spare 7" Roller Tray 0947spare7tray Spare 9" Roller Tray 0947spare9tray

Line Marking Paint 750ml

Description Part No
Spray 750ml Blue 0968blue750ml
Spray 750ml Orange 0968orange750ml
Spray 750ml Red 0968red750ml
Spray 750ml White 0968white750ml
Spray 750ml Yellow 0968yellow750ml

Galvafroid

Provides a galvanic protection on iron and steel. It can be used as a self-finish or as a durable rust inhibiting primer beneath selected top coats.

It is recommended for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipework and guttering, and the rust prevention of in-situ welding work.

Drying times at 20°C — touch dry: 2 hours hard dry: 24 hours recoating time: 24 hours minimum



Description Part No
Galvafroid 400ml 0968galvafroid400
Galvafroid 800ml 0968galvafroid800
Galvafroid 1.9 Litre 0968galvafroid1.9

Primers

Description Grey Oxide Primer - 5 Ltr Red Oxide Primer - 5 Ltr Pipeline Paint Yellow - 5 Ltr Galvanising Spray 400ml Part No 0968grey05l 0968red05l 0968yellowpipe05l 0968rocolcldqv300

Spray Paint 500ml

Description Part No
Spray Paint Black 0968blackspray
Spray Paint Blue 0968bluespray
Spray Paint Green 0968greenspray
Spray Paint Red 0968redspray
Spray Paint White 0968whitespray
Spray Paint Yellow 0968yellowspray

Hand Cleaners



Description
5ltr Green Hand Cleaner
5ltr Red Gel Grit Hand Cleaner
1ltr Green Hand Cleaner
1ltr Red Gel Grit Hand Cleaner
1kg Swarfega Hand Cleaner
25kg Tufanega with polygrains

Part No
0955grenhandcleaner
0955redgelgritha
0955grenhandcleaner1ltr
0955redgelgrit1ltr
0955swarf01
0955tufanega25jg



Strong - due to modern vacuum hardening Durable - specially constructed tungsten carbide tips

SDS Drills Bits

SDS+ Masonry Drills



SDS+	Drill	Bit	Avai	lability	
------	-------	-----	------	----------	--

Diameter

		4mm	5mm	5.5mm	6mm	6.5mm	7mm	8mm	10mm	11mm	12mm	13mm	14mm	15mm	16mm	18mm	19mm	20mm	22mm	24mm	25mm	26mm
	110	•	•	•	•	•	•	•														
	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
	210		•	•	•	•	•	•	•		•		•	•	•	•	•	•				
6	260				•	•	•	•	•	•	•	•	٠	٠	•	٠		٠	•	•	•	•
	310				•			•	•		•	•	•		•	•	•	•	•	•	•	•
	450							•	•		•	•	•	•	•	•	•	•		•	•	•
	600								•		•		•		•	•		•		•		
	800										•				•			•				
	1000										•				•	٠		٠				

SDS- Max Hammer Drills



SDS+ Drill Bit Availability

Ī		12mm	14mm	15mm	16mm	18mm	20mm	22m	24mm	25mm	28mm	30mm	32mm	35mm	38mm	40mm
l	320mm						•	•	•	•						
,																
ı	340mm	•	•	•	•	•										
ı	370mm										•	•	•	•	•	•

SDS- Max Points & Chisels

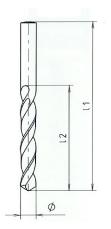
	Point	Flat	Spade	Gouge	Wide
280mm	•	•			
300mm				•	•
350mm					•
400mm	•	•	•		•
600mm	•	•			



Leng

Length

HSS Drill Bits DIN338RN

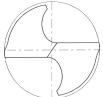












Relieved cone, 118 degree universal point-shape for a lot of drilling applications in steel and iron, non ferrous metals, plastics and other materials.

More aggressive cutting geometry Quality forged drill Faster -

Stronger -

Dia mm	Dia in	L1 mm	L2 mm
0.40	1/64	20	5
0.80	1/32	30	10
1.00		34	12
1.10		36	14
1.19	3/64	38	16
1.20		38	16
1.25		38	16
1.30		38	16
1.40		40	18
1.50		40	18
1.59	1/16	43	20
1.60		43	20
1.70		43	20
1.75		46	22
1.80		46	22
1.90		49	24
1.98	5/64	49	24
2.00		49	24
2.10		49	24
2.20		53	27
2.25		53	27
2.30		53	27
2.38	3/32	57	30
2.40		57	30
2.50		57	30
2.60		57	30
2.70		61	33
2.75		61	33
2.78	7/64	61	33
2.80		61	33
2.90		61	33
3.00		61	33
3.10		65	36

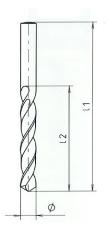
Dia	Dia in	L1	L2
mm 3.18	1/8	mm 65	mm 36
	1/0	•	
3.20		65	36
3.25		65	36
3.30		65	36
3.40		70	39
3.50		70	39
3.27	9/64	70	39
3.60		70	39
3.70		70	39
3.75		70	39
3.80		75	43
3.90		75	43
3.97	5/32	75	43
4.00		75	43
4.10		75	43
4.20		80	43
4.25		80	43
4.30		80	47
4.37	11/64	80	47
4.40		80	47
4.50		80	47
4.60		80	47
4.70		80	47
4.75		80	47
4.76	3/16	86	47
4.80		86	52
4.90		86	52
5.00		86	52
5.10		86	52
5.16	13/64	86	52
5.20		86	52
5.25		86	52
5.30		86	52

	Dia in		L2
mm		mm	mm
5.40		93	57
5.50		93	57
5.56	7/32	93	57
5.60		93	57
5.70		93	57
5.75		93	57
5.80		93	57
5.90		93	57
5.95	15/64	93	57
6.00		93	57
6.10		101	63
6.20		101	63
6.25		101	63
6.30		101	63
3.35	1/4	101	63
6.40		101	63
6.50		101	63
6.60		101	63
6.70		101	63
6.75	17/64	109	69
6.80		109	69
6.90		109	69
7.00		109	69
7.10		109	69
7.14		109	69
7.20		109	69
7.25		109	69
7.30		109	69
7.40		109	69
7.50		109	69
7.54	19/64	117	75
7.60		117	75
7.70		117	75

Dia	Dia in	L1	L2
mm		mm	mm
7.75		117	75
7.80		117	75
7.90		117	75
7.94	5/16	117	75
8.00		117	75
8.10		117	75
8.20		117	75
8.25		117	75
8.30		117	75
8.33	21/64	117	75
8.40		117	75
8.50		117	75
8.60		125	81
8.70		125	81
8.73	11/32	125	81
8.75		125	81
8.80		125	81
8.90		125	81
9.00		125	81
9.10		125	81
9.13	23/64	125	81
9.20		125	81
9.25		125	81
9.30		125	81
9.40		125	81
9.50		125	81
9.53	3/8	125	81
9.60		133	87
9.70		133	87
9.75		133	87
9.80		133	87
9.90		133	87
9.92	25/64	133	87

Dia	Dia in	L1	L2
mm	Dia III	mm	mm
10.00		133	87
10.20		133	87
10.25		133	87
10.32	13/32	133	87
10.50		133	87
10.72	27/64	142	94
10.75		142	94
11.00		142	94
11.11	7/16	142	94
11.25		142	94
11.50		142	94
11.51	29/64	142	94
11.75		142	94
11.91	15/32	151	101
12.00		151	101
12.25		151	101
12.30	31/64	151	101
12.50		151	101
12.70	1/2	151	101
12.75		151	101
13.00		151	101
13.50		160	108
14.00		160	108
14.28	9/16	169	114
14.50		169	114
15.00		169	114
15.87	5/8	178	120
16.00		178	120

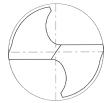




Cobalt Drill Bits DIN338RN







5% cobalt alloyed jobber drills with high heat resistance for drilling steels with high tensile strength over 800 N/mm.

Specially suitable for high alloyed steels, bearing steels, hot/cold-rolled steel, particularly stainless steel.

Dia	Dia in	L1	L2
mm		mm	mm
0.40	1/64	20	5
0.80	1/32	30	10
1.00		34	12
1.10		36	14
1.19	3/64	38	16
1.20		38	16
1.25		38	16
1.30		38	16
1.40		40	18
1.50		40	18
1.59	1/16	43	20
1.60		43	20
1.70		43	20
1.75		46	22
1.80		46	22
1.90		49	24
1.98	5/64	49	24
2.00		49	24
2.10		49	24
2.20		53	27
2.25		53	27
2.30		53	27
2.38	3/32	57	30
2.40		57	30
2.50		57	30
2.60		57	30
2.70		61	33
2.75		61	33
2.78	7/64	61	33
2.80		61	33
2.90		61	33
3.00		61	33
3.10		65	36

Dia	Dia in	L1	L2
mm 3.18	1/8	mm 65	mm 36
3.20	170	65	36
3.25		65	36
3.30		65	36
3.40		70	39
3.50		70	39
3.27	9/64	70	39
3.60		70	39
3.70		70	39
3.75		70	39
3.80		75	43
3.90		75	43
3.97	5/32	75	43
4.00		75	43
4.10		75	43
4.20		80	43
4.25		80	43
4.30		80	47
4.37	11/64	80	47
4.40		80	47
4.50		80	47
4.60		80	47
4.70		80	47
4.75		80	47
4.76	3/16	86	47
4.80		86	52
4.90		86	52
5.00		86	52
5.10		86	52
5.16	13/64	86	52
5.20		86	52
5.25		86	52
5.30		86	52

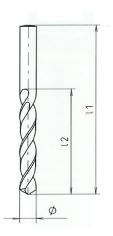
Dia mm	Dia in	L1 mm	L2 mm
5.40		93	57
5.50		93	57
5.56	7/32	93	57
5.60		93	57
5.70		93	57
5.75		93	57
5.80		93	57
5.90		93	57
5.95	15/64	93	57
6.00		93	57
6.10		101	63
6.20		101	63
6.25		101	63
6.30		101	63
6.35	1/4	101	63
6.40		101	63
6.50		101	63
6.60		101	63
6.70		101	63
6.75	17/64	109	69
6.80		109	69
6.90		109	69
7.00		109	69
7.10		109	69
7.14		109	69
7.20		109	69
7.25		109	69
7.30		109	69
7.40		109	69
7.50		109	69
7.54	19/64	117	75
7.60		117	75
7.70		117	75

Dia	Dia in	L1	L2
mm		mm 117	75
7.75			. 0
7.80		117	75
7.90		117	75
7.94	5/16	117	75
8.00		117	75
8.10		117	75
8.20		117	75
8.25		117	75
8.30		117	75
8.33	21/64	117	75
8.40		117	75
8.50		117	75
8.60		125	81
8.70		125	81
8.73	11/32	125	81
8.75		125	81
8.80		125	81
8.90		125	81
9.00		125	81
9.10		125	81
9.13	23/64	125	81
9.20		125	81
9.25		125	81
9.30		125	81
9.40		125	81
9.50		125	81
9.53	3/8	125	81
9.60		133	87
9.70		133	87
9.75		133	87
9.80		133	87
9.90		133	87
9.92	25/64	133	87

mm mm mm 10.00 133 87 10.25 133 87 10.32 13/32 133 87 10.50 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.50 142 94 11.51 29/64 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.30 31/64 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114 <th></th> <th></th> <th></th> <th></th>				
10.00 133 87 10.20 133 87 10.25 133 87 10.32 13/32 133 87 10.50 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.70 1/2 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	Dia	Dia in	L1	L2
10.20 133 87 10.25 133 87 10.32 13/32 133 87 10.50 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.70 1/2 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114				
10.25 133 87 10.32 13/32 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114				•
10.32 13/32 133 87 10.50 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.50 142 94 11.51 29/64 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108				
10.50 133 87 10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.30 31/64 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	10.25		133	
10.72 27/64 142 94 10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114		13/32	133	87
10.75 142 94 11.00 142 94 11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.30 31/64 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	10.50		133	87
11.00 142 94 11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.30 31/64 151 101 12.75 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	10.72	27/64	142	94
11.11 7/16 142 94 11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.70 1/2 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	10.75		142	94
11.25 142 94 11.50 142 94 11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.00		142	94
11.50	11.11	7/16	142	94
11.51 29/64 142 94 11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.25		142	94
11.75 142 94 11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.50 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.50		142	94
11.91 15/32 151 101 12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.50 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.51	29/64	142	94
12.00 151 101 12.25 151 101 12.30 31/64 151 101 12.50 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.75		142	94
12.25 151 101 12.30 31/64 151 101 12.50 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	11.91	15/32	151	101
12.30 31/64 151 101 12.50 151 101 12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	12.00		151	101
12.50	12.25		151	101
12.70 1/2 151 101 12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	12.30	31/64	151	101
12.75 151 101 13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	12.50		151	101
13.00 151 101 13.50 160 108 14.00 160 108 14.28 9/16 169 114	12.70	1/2	151	101
13.50 160 108 14.00 160 108 14.28 9/16 169 114	12.75		151	101
14.00 160 108 14.28 9/16 169 114	13.00		151	101
14.28 9/16 169 114	13.50		160	108
	14.00		160	108
44.50 400 444	14.28	9/16	169	114
14.50 169 114	14.50		169	114
15.00 169 114	15.00		169	114
15.87 5/8 178 120	15.87	5/8	178	120
16.00 178 120	16.00		178	120

Other types of Drill Bits

HSS Long Series Drills DIN340RN

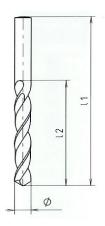


Dia	L1 mm	L2 mm
1.00	56	33
1.50	70	45
2.00	85	56
2.50	95	62
3.00	100	66
3.50	112	73
4.00	119	78
4.50	126	82
5.00	132	87
5.50	139	91
6.00	139	91
6.50	148	97
7.00	156	102
7.50	156	102
8.00	165	109
9.00	175	115
10.00	184	121

Twist drill, ground from solid. Toughness combined with good cutting efficiency.



HSS Stub Drills for rivets



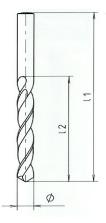
Dia mm	Dia in	L1 mm	L2 mm
2.38	3/32	43	10
2.78	7/64	46	11
3.10		49	11
3.18	1/8	49	11
3.20		49	11
3.25		49	11
3.30		49	11
3.57	9/64	52	14
3.97	5/32	55	14
4.10		55	14
4.20		55	14
4.37	11/64	58	17
4.76	3/16	62	17
4.90		62	17
5.00		62	17
5.10		62	17
5.16	13/64	62	17
5.20		62	17
5.56	7/32	66	28
6.35	1/4	70	31

Drill with extremely sturdy construction, particularly suitable for drilling thin materials.

Used in portable-hand tools, mainly in body panel shops, car repairs shops etc.



HSS Extra Long Series Drills DIN 1869 R1, R2, R3 RN



Dia mm	L1 mm	L2 mm
2.50	140	95
3.00	150	100
3.00	190	130
3.50	165	115
3.50	265	180
4.00	220	150
4.00	280	190
5.00	195	135
5.00	315	210
6.00	205	140
6.00	330	225
6.50	215	150
6.50	350	235

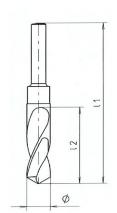
Dia mm	L1 mm	L2 mm
7.00	225	155
7.00	370	250
8.00	240	165
8.00	305	210
8.00	390	265
9.00	250	175
9.00	410	280
10.00	340	235
10.00	430	295
11.00	280	195
11.00	455	310
12.00	295	205
12.00	480	330



Premium Quality twist drill for drilling of steel and steel castings, alloy and plain carbon, grey iron castings, copper alloys, nickel-silver, graphite and similar materials.







Dia mm	Dia in	L1 mm	L2 mm	Shank in
14.28	9/16	156	79	1/2"
15.87	5/8	157	79	1/2"
17.46	11/16	157	79	1/2"
19.00	3/4	157	79	1/2"
20.64	13/64	158	76	1/2"
22.22	7/8	158	76	1/2"
23.81	15/16	159	76	1/2"
25.40	1	159	76	1/2"
31.75	1.1/4	162	90	1/2"

Other types of Drill Bits

HSS Blacksmiths Drills WN 734



1/2" reduced shank large diameter HSS drills



Flat Wood Bits

 Diameter
 Diameter

 6.5mm
 22mm

 8mm
 25mm

 10mm
 28mm

 13mm
 32mm

14mm 16mm 300mm Exte

18mm 20mm 300mm Extension Sleeve

Diameter

16mm 20mm

22mm

25mm

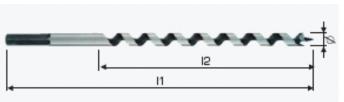
32mm

Designed for use with rotary action power drills. For rapid drilling of large diameter holes in softwoods, chipboard etc.



Auger Wood Bits

Precision drilling of deep holes in all types of wood.



- Hardened, tempered carbon steel retains sharpness and edge
 Self feeding screw pulls bit into wood for precise drilling.
 - 3. Open throat & double twist design for rapid chip clearance

Brad Point Wood Drills



Precision drilling of deep holes in all types of wood.

All purpose wood bit for professional drilling in wood, laminate and plasterboard.

Central point makes bit easy to position for accurate drilling. Gives fast cutting action and clean sharp holes.

6.5mm 8mm 10mm 11mm 13mm

Diameter

Diameter 3mm 4mm 5mm 6mm

10mm 13mm



Rotabroach Cutters



These feature a highly advanced double edged tooth geometry which creates a true double positive cutting action at the hole and slug diameters.

During each revolution, 4 to 16 cutting edges are at work (depending on cutter size), removing metal which is swept away and upward from the cutting edges and exits via the ground spiral fluting.

Also, with a very low chip load per tooth, Rotabroach cutters have an extremely smooth cutting action, while heat generation and wear are kept to a minimum.

So, in comparison with twist drill methods, Rotabroach has distinct advantages. The ability to cut holes in a single pass. The versatility to cut chain holes, slots and holes in radiused surfaces. All with valuable savings in time and manpower. Compare these drilling times

The use of Rotabroach cutters has led to dramatic savings in hole cutting times in construction, fabrication and general engineering applications. In a typical application, the time taken to drill a 34mm diameter hole through 25mm material by conventional twist drill methods was 225 seconds. using a Rotabroach cutter, the same operation was completed in just 45 seconds.

The speed and efficiency of the Rotabroach System is the result of a unique cutter design representing a major advance on twist drill hole cutting methods.

Unlike a twist drill, which removes all the material from the hole in the form of swarf, the Rotabroach cutter has a peripheral cutting action and removes a narrow annulus of material, leaving a slug to be ejected at the end of the cut.

	Short x 25mm	Long x 50mm
12mm	•	•
13mm	•	•
14mm	•	•
15mm	•	•
16mm	•	•
17mm	•	•
18mm	•	•
19mm	•	•
20mm	•	•
21mm	•	•
22mm	•	•
23mm	•	•
24mm	•	•
25mm	•	•
26mm	•	•
27mm	•	•
28mm	•	•
29mm	•	•
30mm	•	•
31mm	•	•
32mm	•	•
33mm	•	•
34mm	•	•
35mm	•	•
36mm	•	•

	Short x 25mm	Long x 50mm
37mm	•	•
38mm	•	•
39mm	•	•
40mm	•	•
41mm	•	•
42mm	•	•
43mm	•	•
44mm	•	•
45mm	•	•
46mm	•	•
47nn	•	•
48mm	•	•
49mm	•	•
50mm	•	•
51m	•	•
52mm	•	•
53mm		•
54mm		•
55mm		•
56mm		•
57mm		•
58mm		•
59mm		•
60mm		•

Rotabroach

ALWAYS AT THE CUTTING EDGE

Electro-magnetic Drilling

The Panther



Lightweight - ideal for use on site on in a workshop Cuts holes up to 40mm diameter x 50mm deep 1100 watt motor Feed capstan may be reversed for easy positioning in tight areas Variable speed - the right speed for the right diameter Automatic coolant bottle Supplied with secure carrying case

Motor specification 110v full load 11amps 1100w
230w full load 5amps 1100w No load rpm 350 to 600 rpm Max hole cutting capacity
40mm dia x 50mm deep
Overall dimensions Height 510mm max
Width 180mm Exc. bottle
Length 265mm
Net weight 14.6 kgs S
pindle bore 19.05 (3/4")
Magnetic adhesion 750 kgs
Safety features Clutch and electronic overload

4



The Cobra

Drill on site or in a workshop Cuts holes up to 65mm diameter x 50mm deep 1400 watt motor Feed capstan may be reversed for easy positioning in tight areas Controls mounted at the rear for better access 1200 kgs magnetic adhesion Variable speed - the right speed for the right diameter Automatic cooland bottle Supplied with secure carrying case

Motor specification 110v full load 14amps 1400w 230w full load 6.0amps 1400w No load rpm 160 to 640 rpm Max hole cutting capacity 65mm dia x 50mm deep Overall dimensions Height 570mm max Width 190mm Exc. bottle Length 300mm Net weight 19.8 kgs Spindle bore 19.05 (3/4") Magnetic adhesion 1200 kgs Safety features Clutch and electronic overload





Lightweight - ideal for use on site on in a workshop Cuts holes up to 30mm diameter x 25mm deep 800 watt motor Feed capstan may be reversed for easy positioning in tight areas Controls mounted at the rear for better access 750kgs magnetic adhesion Complete with 1/2" drill chuck Supplied with secure carrying case

Motor specification 110v full load 7.8amps 800w 230w full load 4amps 800w No load rpm 600rpm Max hole cutting capacity 30mm dia x 25mm deep Overall dimensions Height 420mm max Width 170mm Length 250mm Net weight 12.2 kgs Spindle bore 19.05 (3/4") Magnetic adhesion 750 kgs Safety features Electronic overload

Grinding & Cutting Discs



Flat Metal Cutting Discs

100mm x 3mm x 16mm

115mm x 3mm x 22mm

125mm x 3mm x 22mm

180mm x 3mm x 22mm

230mm x 3mm x 22mm

300mm x 3mm x 20mm

300mm x 3mm x 22mm

350mm x 3mm x 25.4mm



DPC Metal Cutting Disc

100mm x 3mm x 16mm

115mm x 3mm x 22mm

125mm x 3mm x 22mm

180mm x 3mm x 22mm

230mm x 3mm x 22mm



DPC Metal Grinding Disc

100mm x 6mm x 16mm

115mm x 6mm x 22mm

125mm x 6mm x 22mm

180mm x 6mm x 22mm

230mm x 6mm x 22mm



Flat Stone Cutting Discs

100mm x 3mm x 16mm

115mm x 3mm x 22mm

125mm x 3mm x 22mm

180mm x 3mm x 22mm

230mm x 3mm x 22mm

300mm x 3mm x 20mm

300mm x 3mm x 22mm



DPC Stone Cutting Disc

100mm x 3mm x 16mm

115mm x 3mm x 22mm

125mm x 3mm x 22mm 180mm x 3mm x 22mm

230mm x 3mm x 22mm



DPC Stone Grinding Disc

100mm x 6mm x 16mm

115mm x 6mm x 22mm

125mm x 6mm x 22mm

180mm x 6mm x 22mm

230mm x 6mm x 22mm



DPC Metal Cutting Discs for Stainless Steel

100mm x 3mm x 16mm

115mm x 3mm x 22mm 125mm x 3mm x 22mm

180mm x 3mm x 22mm

230mm x 3mm x 22mm



Ultra Thin Metal Cutting **Discs for Stainless Steel**

115mm x 1mm x 22mm

125mm x 2mm x 22mm 180mm x 2mm x 22mm 230mm x 2mm x 22mm



DPC Metal Grinding Discs for Stainless Steel

100mm x 6mm x 16mm

115mm x 6mm x 22mm

125mm x 6mm x 22mm

180mm x 6mm x 22mm

230mm x 6mm x 22mm







Diamond Cores & Discs

Dry Diamond Core Bits with SST



DCS range of dry diamond core drills feature SST diamond technology and can be used with any 2kg machine with 600w and 700 rpm. This SST technology is so special that Marcrist have several international patents pending. SST technology uses a new segment matrix that allows the use of 2kg drilling machine with more than 600w and 700 rpm to diamond drill.

Part Number	Description
249.000.0022 :	DCS850 Core 20
249.000.0028 :	DCS850 Core 20

2 x 400mm 1/2" BSP(F) 28 x 400mm 1/2" BSP(F) 249.000.0032: DCS850 Core 32 x 400mm 1/2" BSP(F) DCS850 Core 38 x 165mm 1/2" BSP(F) 249.000.0038: 249.000.0048: DCS850 Core 48 x 165mm 1/2" BSP(F) DCS850 Core 52 x 165mm 1/2" BSP(F) 249.000.0052: DCS850 Core 60 x 165mm 1/2" BSP(F) 249.000.0060: DCS850 Core 65 x 165mm 1/2" BSP(F) 249.000.0065: DCS850 Core 72 x 165mm 1/2" BSP(F) DCS850 Core 78 x 165mm 1/2" BSP(F) 249.000.0072: 249.000.0078: DCS850 Core 82 x 165mm 1/2" BSP(F) 249.000.0082: 249.000.0091: DCS850 Core 91 x 165mm 1/2" BSP(F) DCS850 Core 107 x 165mm 1/2" BSP(F) 249.000.0107: DCS850 Core 117 x 165mm 1/2" BSP(F) 249.000.0117: DCS850 Core 127 x 165mm 1/2" BSP(F) 249.000.0127: DCS850 Core 132 x 165mm 1/2" BSP(F) 249.000.0132: DCS850 Core 152 x 165mm 1/2" BSP(F) 249.000.0152: 249.000.0162: DCS850 Core 162 x 165mm 1/2" BSP(F)

BM300 Economy Dry Diamond Cutting Discs



The BM300 is one of the most competitive quality blades on the market and will return on average 67 cuts per blade

Dry diamond cutting disc are suitable for concrete, reinforced concrete, natural stone, roof tiles, bricks and blocks, paving slabs, concrete products, clay pipes, terazzo.

Part Number Description

BM300 Dry Blade 115 x 22.2mm
BM300 Dry Blade 125 x 22.2mm
BM300 Dry Blade 135 x 22.2mm
BM300 Dry Blade 140 x 22.2mm
BM300 Dry Blade 150 x 22.2mm
BM300 Dry Blade 180 x 22.2mm
BM300 Dry Blade 230 x 22.2mm
BM300 Dry Blade 300 x 20.0mm
BM300 Dry Blade 300 x 22.2mm
BM300 Dry Blade 300 x 25.4mm
BM300 Dry Blade 300 x 30.0mm
BM300 Dry Blade 350 x 20mm
BM300 Dry Blade 350 x 22.2mm
BM300 Dry Blade 350 x 25.4mm
BM300 Dry Blade 350 x 30.0mm

BM700 Professional Dry Diamond Cutting Discs



700 Series: The best diamond tools with excellent life, cutting speed and the cheapest cost per cut and will return on average 303 cuts per blade life

Dry diamond cutting disc are suitable for concrete, reinforced concrete, natural stone, roof tiles, bricks and blocks, paving slabs, concrete products, clay pipes, terazzo.

Part Number Description

1100.0115.22 :	BM700 Dry Blade 115 x 22.2mm
1100.0125.22 :	BM700 Dry Blade 125 x 22.2mm
1100.0135.22 :	BM700 DRY Blade 135 x22.2mm
1100.0135.30 :	BM700 Dry Blade 135 x 30mm
1100.0140.22 :	BM700 Dry Blade 140 x 22.2mm
1100.0140.30 :	BM700 Dry Blade 140 x 30mm
1100.0150.22 :	BM700 Dry Blade 150 x 22.2mm
1100.0180.22 :	BM700 Dry Blade 180 x 22.2mm
1100.0230.22 :	BM700 Dry Blade 230 x 22.2mm
1100.0250.22 :	BM700 Dry Blade 250 x 22.2mm
1100.0250.30:	BM700 Dry Blade 250 x 30mm
1100.0300.20 :	BM700 Dry Blade 300 x 20mm
1100.0300.22 :	BM700 Dry Blade 300 x 22.2mm
1100.0300.25 :	BM700 Dry Blade 300 x 25.4mm
1100.0300.30 :	BM700 Dry Blade 300 x 30mm
1100.0350.20 :	BM700 Dry Blade 350 x 20mm
1100.0350.22 :	BM700 Dry Blade 350 x 22.2mm
1100.0350.25 :	BM700 Dry Blade 350 x 25.4mm
1100.0350.30:	BM700 Dry Blade 350 x 30mm
1100.0400.25 :	BM700 Dry Blade 400 x 25.4mm
1100.0400.30 :	BM700 Dry Blade 400 x 30mm
1100.0450.25 :	BM700 Dry Blade 450 x 25.4mm
1100.0450.30 :	BM700 Dry Blade 450 x 30mm
1100.0500.25 :	BM700 Dry Blade 500 x 25.4mm
1100.0500.30 :	BM700 Dry Blade 500 x 30mm
1100.0600.25 :	BM700 Dry Blade 600 x 25.4mm

Hole Saws



General purpose cutting of thinner gauge materials.

The constant pitch ensures smoother cuts and less bite or snag on contact with regular surfaces.

Arbours

A1 To suit 14-30mm hole saws 3/8" chuck size
A2 To suit 32-210mm hole saws 1/2" chuck size
A4 To suit 14-30mm hole saws 1/4" chuck size
A6 To suit 32-38mm hole saws 1/2" chuck size
A10 To suit 32-152mm hole saws 3/8" chuck size
A11 To suit 14-30mm hole saws 1/2" chuck size

Accessories

A014C A5 Extn A15 Extn Pilot drill to suit all arbours except A4 300mm extension bar to suit A2 arbour 300mm extension bar to suit A1 arbour

Step Drills & Cone Cuts



Step Drills

4-12mm Step Drill 4-20mm Step Drill 4-30mm Step Drill

Cone Cuts

CC1 6-60mm CC2 16.5-30mm CC3 25-40mm



H0096 To suit A1 Arbour

14mm Starrett Ref 16mm Starrett Ref 17mm Starrett Ref 19mm Starrett Ref 20mm Starrett Ref 21mm Starrett Ref 22mm Starrett Ref 24mm Starrett Ref 25mm Starrett Ref 27mm Starrett Ref 29mm Starrett Ref 30mm Starrett Ref 32mm Starrett Ref 33mm Starrett Ref 35mm Starrett Ref 37mm Starrett Ref 38mm Starrett Ref 40mm Starrett Ref 41mm Starrett Ref 43mm Starrett Ref 44mm Starrett Ref 46mm Starrett Ref 48mm Starrett Ref 51mm Starrett Ref 52mm Starrett Ref 54mm Starrett Ref 56mm Starrett Ref 57mm Starrett Ref 59mm Starrett Ref 60mm Starrett Ref 64mm Starrett Ref 65mm Starrett Ref 67mm Starrett Ref 68mm Starrett Ref 70mm Starrett Ref 73mm Starrett Ref 76mm Starrett Ref 79mm Starrett Ref 83mm Starrett Ref 86mm Starrett Ref 89mm Starrett Ref 92mm Starrett Ref 95mm Starrett Ref 98mm Starrett Ref 102mm Starrett Ref 105mm Starrett Ref 108mm Starrett Ref 111mm Starrett Ref 114mm Starrett Ref 121mm Starrett Ref 127mm Starrett Ref 133mm Starrett Ref 140mm Starrett Ref 152mm Starrett Ref 160mm Starrett Ref 168mm Starrett Ref 177mm Starrett Ref 210mm Starrett Ref

H0058 To suit A1 Arbour H1016 To suit A1 Arbour H0034 To suit A1 Arbour H2532 To suit A1 Arbour H1036 To suit A1 Arbour H0078 To suit A1 Arbour H1056 To suit A1 Arbour H0100 To suit A1 Arbour H0116 To suit A1 Arbour H0118 To suit A1 Arbour H0136 To suit A1 Arbour H0114 To suit A2 Arbour H0156 To suit A2 Arbour H0138 To suit A2 Arbour H0176 To suit A2 Arbour H0112 To suit A2 Arbour H0196 To suit A2 Arbour H0158 To suit A2 Arbour H116 To suit A2 Arbour H0134 To suit A2 Arbour H1136 To suit A2 Arbour H0178 To suit A2 Arbour H0200 To suit A2 Arbour H0216 To suit A2 Arbour H0218 To suit A2 Arbour H56MM To suit A2 Arbour H0214 To suit A2 Arbour H0256 To suit A2 Arbour H0238 To suit A2 Arbour H0212 To suit A2 Arbour H0296 To suit A2 Arbour H0258 To suit A2 Arbour H68MM To suit A2 Arbour H0234 To suit A2 Arbour H0278 To suit A2 Arbour H0300 To suit A2 Arbour H0318 To suit A2 Arbour H0314 To suit A2 Arbour H0338 To suit A2 Arbour H0312 To suit A2 Arbour H0358 To suit A2 Arbour H0334 To suit A2 Arbour H0378 To suit A2 Arbour H0400 To suit A2 Arbour H0418 To suit A2 Arbour H0414 To suit A2 Arbour H0438 To suit A2 Arbour H0412 To suit A2 Arbour H0434 To suit A2 Arbour H0500 To suit A2 Arbour H0514 To suit A2 Arbour H0512 To suit A2 Arbour H0600 To suit A2 Arbour H160MM To suit A2 Arbour H168MM To suit A2 Arbour H177MM To suit A2 Arbour H210MM To suit A2 Arbour

Taps & Cutting Oils

Hand Taps & Wrenches



Description	Part Number
Tap Wrench TW2 (3mm-12mm)	0905holder2
Tap Wrench TW1 (2mm-12mm)	0905tw1.5
M3 HSGT Hand Taps - Plug Cut	0905m03p
M3 HSGT Hand Taps - Second Cut	0905m03s
M3 HSGT Hand Taps - Taper Cut	0905m03t
M3.5 HSGT Hand Taps - Plug Cut	0905m03.5p
M3.5 HSGT Hand Taps - Second Cut	0905m03.5s
M3.5 HSGT Hand Taps - Taper Cut	0905m03.5t
M4 HSGT Hand Taps - Plug Cut	0905m04p
M4 HSGT Hand Taps - Second Cut	0905m04s
M4 HSGT Hand Taps - Taper Cut	0905m04t
M5 HSGT Hand Taps - Plug Cut	0905m05p
M5 HSGT Hand Taps - Second Cut	0905m05s
M5 HSGT Hand Taps - Taper Cut	0905m05t
M6 HSGT Hand Taps - Plug Cut	0905m06p
M6 HSGT Hand Taps - Second Cut	0905m06s
M6 HSGT Hand Taps - Taper Cut	0905m06t
M8 HSGT Hand Taps - Plug Cut	0905m08p
M8 HSGT Hand Taps - Second Cut	0905m08s
M8 HSGT Hand Taps - Taper Cut	0905m08t
M10 HSGT Hand Taps - Plug Cut	0905m10p
M10 HSGT Hand Taps - Second Cut	0905m10s
M10 HSGT Hand Taps - Taper Cut	0905m10t
M12 HSGT Hand Taps - Plug Cut	0905m12p
M12 HSGT Hand Taps - Second Cut	0905m12s
M12 HSGT Hand Taps - Taper Cut	0905m12t
M16 HSGT Hand Taps - Plug Cut	0905m16p
M16 HSGT Hand Taps - Second Cut	0905m16s
M16 HSGT Hand Taps - Taper Cut	0905m16t
M20 HSGT Hand Taps - Plug Cut	0905m20p
M20 HSGT Hand Taps - Second Cut	0905m20s
M20 HSGT Hand Taps - Taper Cut	0905m20t

Cutting Liquid & Compounds



Rocol J166 Anti Seize Compound 400g Rocol RTD Metal Cutting Liquid 500ml Rocol RTD Cutting Compound White Jointing Compound 400g Tin

0958rocolj166500g 0958rtdmetalcut400g 0958trefolex500ml 0958white400g

Tallow



Used as a lubricant for threading, pulling electric cables through conduit etc. Hard white tallow.

WD40 Lubricant



400ml WD40

0958wd40ml400