



Product Guide 2009



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A PROUD HISTORY

In 1952, Siddons Drop Forgings Limited, a company founded by John Siddons secured the rights to the world's first commercially viable powder actuated fixing system.

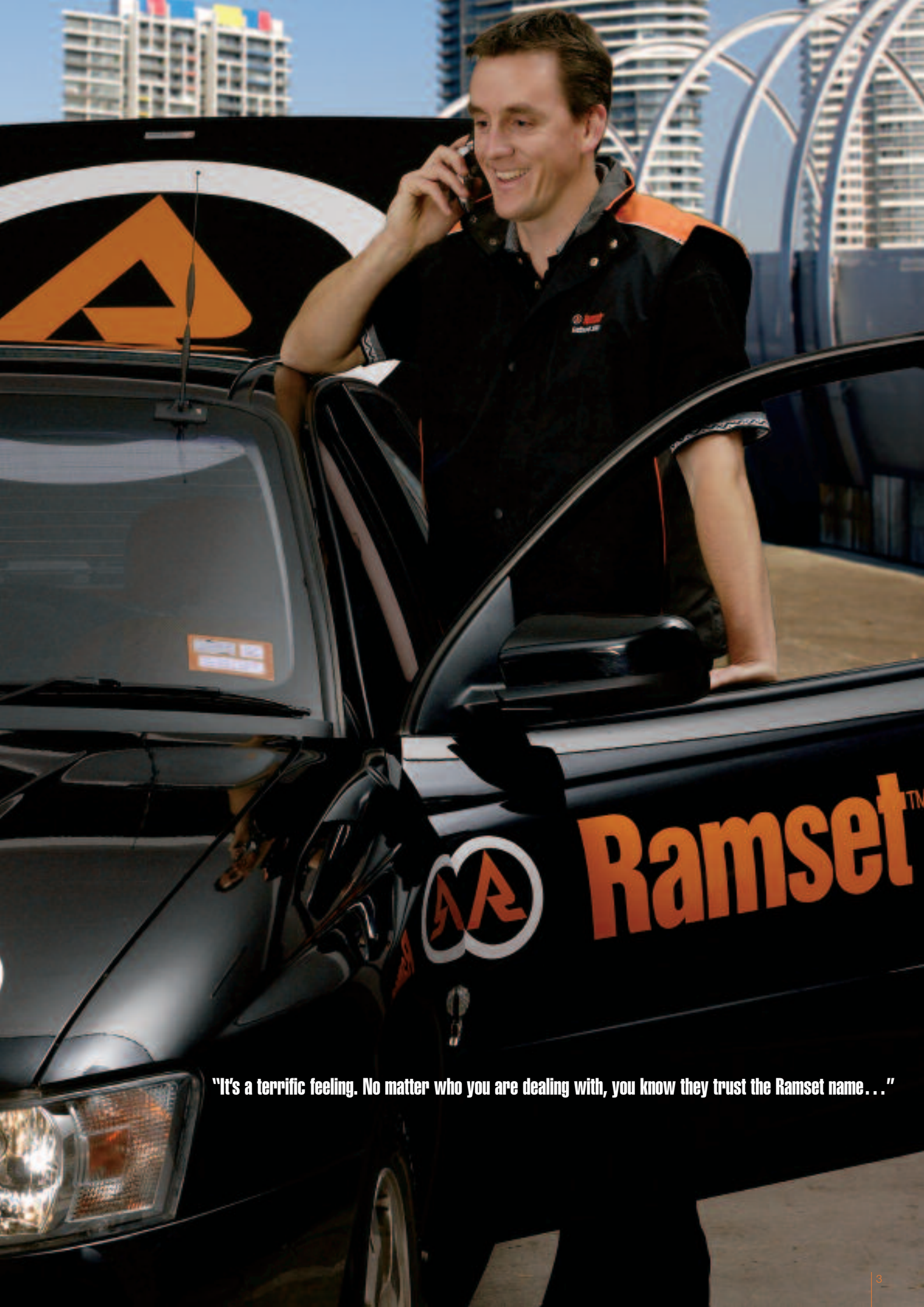
The new company, Ramset™ Fasteners (Aust.) Pty Limited was destined to become a leader in developing, manufacturing and supplying the latest technology for the construction industry. Principle among this technology was concrete fixing, drilling and anchoring systems as well as construction chemicals.

By the late 1980's, Ramset™ was an integral part of the wholly Australian owned group, Siddons Ramset™ Limited; a diverse corporation that included leading manufacturing, importing and distribution companies.

Today, more than 50 years after being founded, Ramset™ is part of ITW Inc., an international industrial corporation of over 700 companies and 50,000 employees with a turnover in 2006 of \$US13 billion. Other leading Australian based companies within the group include ITW Buildex, Pryda, Reid, Paslode, FH Prager and Epirez.

50 years on, Ramset™ is a company with a proud history and an exciting future.





"It's a terrific feeling. No matter who you are dealing with, you know they trust the Ramset name..."



Ramset™

MADE IN AUSTRALIA

Unlike any direct competitor, Ramset™ develops and manufactures a significant portion of its product range in Australia for both the local as well as overseas markets.

A “dedicated” approach to product manufacture has simplified the process, from raw materials through production, quality control to packing and freight, which in turn has resulted in increased efficiencies, greater flexibility, the ability to adapt product to specific needs and higher levels of product reaching the customer “in-full, on-time”.

Ramset™ is a “Quality Endorsed Company” and accredited to AS/NZS ISO9001:2000, Quality Management System – Requirements, which encompasses Research and Development, Manufacturing, Marketing, Sales as well as delivery of Products and Services to customers.

Ramset™, Australian made...quality assured.





"It all boils down to producing the best product possible to meet our customers' needs..."



THE REAL WORLD

Trade Focus may be a relatively new term but at Ramset™ it has been a way of life for over 50 years. No product is manufactured simply in the hope that it may be successful... Ramset™ personnel go out into the marketplace, onto construction sites, meet with engineers, ask questions, find out what really goes on, how trades operate, what designers and specifiers require.

Armed with the knowledge gained from the field, Ramset™ engineers and technical service representatives are then able to provide the highest quality products, technical expertise and service to customers.

While spending time on-site is second nature to Ramset™ personnel, customer support is also provided through the Customer Service Centre and online at www.ramset.com.au. The National Service Centre also provides full servicing facilities for the entire range of Ramset™ tools.

Ramset™ operates in the real world... the construction site.





**"It's when you're on site
that you really come to
appreciate what the
industry is all about..."**

PARTNERSHIP

In order to deliver the highest levels of service and support to its customers, Ramset™ not only provides on-site technical expertise, but also provides its products via major trade distribution and retail hardware outlets around Australia.

For trades people, this provides added convenience no matter where their job site is.

Comprehensive training and operator certification is provided to the end user of Ramset™ tools and is an integral part of the relationship between the company and its distributors whose staff undertake comprehensive training to familiarise themselves with Ramset™ product.

Service, support, delivery and innovation all lead to customer satisfaction. It is a simple philosophy that permeates the business and has become a powerful tool in keeping Ramset™ at the forefront of the industry.



DIRECT FIXING TOOLS AND ACCESSORIES



FIXING TECHNOLOGY

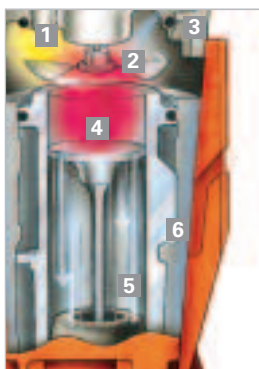
Direct Fixing Tools

| | Page | Tool | Weight | Maximum Impact Energy |
|-----------------------|------|---------------------|--------|-----------------------|
| GAS TOOLS | 14 | CableMaster™ | 3.7kg | 82J |
| | 20 | TrakMaster™ | 3.7kg | 82J |
| | 22 | TrakFast™ | 4.1kg | 77J |
| POWDER ACTUATED TOOLS | 28 | Rocket | 2.2kg | 360J |
| | 30 | FrameMaster™ TS750P | 2.5kg | 300J |
| | 32 | FormMaster™ | 3.0kg | 400J |
| | 34 | TyMaster™ | 2.3kg | 320J |
| | 36 | JobMaster™ | 2.2kg | 350J |
| | 38 | InsulFast™ | 3.0kg | 380J |
| | 42 | DekMaster™ | 3.5kg | 520J |

TOOL SELECTOR GUIDE

| Energy Source | Pin Types | Power Adjustment | Base Material |
|---|---|------------------|--|
| Gas Cartridge, Battery | Pins for steel and concrete - SC6, CG6, HC6 | Automatic | Concrete Steel Rendered brick Rendered concrete block |
| Gas Cartridge, Battery | Pins for steel and concrete - C6, SC6, HC6 | Automatic | Concrete Steel Rendered brick Rendered concrete block |
| Gas Cartridge, Battery | Pins for steel and concrete - FPP, PLY138 | Automatic | Steel Concrete Masonry |
| 6.8mm x 11mm 10 load strip in green, yellow and red | LDU steel and concrete pins LWU and LAU assemblies | Adjustable | Steel Concrete Masonry |
| 6.8mm x 11mm 10 load strip in green, yellow and red | LDU steel and concrete pins LWU and LAU assemblies | Adjustable | Steel Concrete Masonry |
| 6.8mm x 11mm 10 load strip in green, yellow and red | LDU steel and concrete pins LWU and SC9 steel pins | Adjustable | Concrete Structural steel Masonry Steel |
| 6.8mm x 11mm 10 load strip in green, yellow and red | LDU steel and concrete pins LWU and LAU assemblies | Yes (3 Levels) | Overhead fixing Steel Concrete Masonry |
| 5.6mm x 16mm Single shot in green, yellow and red | LDU steel and concrete pins LWU and LAU assemblies | Yes (3 Levels) | Steel Concrete Masonry |
| 6.3mm x 10mm 10 load disc green, yellow | CI6 insulation pins | Adjustable | Steel Concrete Masonry |
| 6.3mm x 16mm 10 load disc yellow, blue and red | LHS22 Steel Pins | Yes (3 levels) | Steel |

Gas Technology - How it works



1. Spark Plug
2. Fan Motor
3. Fuel Port
4. Combustion Chamber
5. Piston Assembly
6. Cylinder

With its own internal combustion engine, Ramset™ Gas Technology fastens cable management, wiring accessories and partitioning track much faster than any other system!

At the heart of Ramset™ Gas Technology is the patented linear combustion engine. With its steel piston rings and precision-machined combustion chamber, Ramset™ Gas Technology drives fasteners all day long, week after week, year after year.

How to select a Ramset™ Gas Technology Fixing to directly fasten an object for permanent installation

Fixing to concrete

As the fixing enters the concrete, extreme pressure and heat are created. This creates a bond that provides high loading strength in concrete.

Edge distance

Do not fix closer than 75mm from the edge of concrete. If the concrete cracks, the fixing may not hold.

Recommended minimum fixing spacing

Setting fixings too close together can cause the concrete to crack. The recommended minimum distance between fixings is 50mm. Never attempt a fixing application too close to another fixing as this could affect the previously inserted fixing's embedment.

Concrete thickness

It is important that the concrete be at least three times as thick as the fixing penetration. If the concrete is too thin, the compressive forces forming at the fixing's point can cause the free face of the concrete to break away. This creates a dangerous condition from flying concrete and / or the fixing and also results in a reduction of fastener holding power.

Fixing to steel

The resilience of steel provides a clamping effect to the fixing. This combined with the tremendous heat that is created, provides a welding and clamping effect to give maximum holding power.

Edge distance

The recommended edge distance for a fixing to the edge of steel is 13mm. Never fire the tool within 13mm of the edge of a steel base material because the steel may bend or break off, allowing the fixing to ricochet.

Recommended minimum fastener spacing

The recommended minimum distance between fixings is 25mm. Never attempt a fixing application too close to another fixing as this could affect the previously installed fixing's embedment.

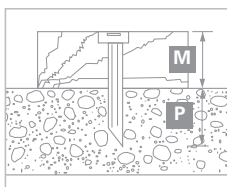
Steel thickness.

Do not fasten into steel base material thinner than the fastener shank diameter. Holding power may be reduced and the fastener may be overdriven.

As a guide when:

- Fixing into steel - min. steel thickness = 3mm

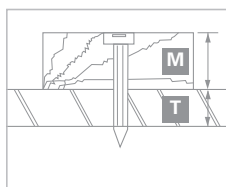
Minimum Shank Length



Minimum Shank Length

Thickness of material (M) + Required penetration (P)

Minimum Shank Length



Minimum Shank Length

Thickness of material (M) + Thickness of steel (T) + 5mm point allowance

Adjusting Fastener Penetration – TrakMaster™ & CableMaster™ Only

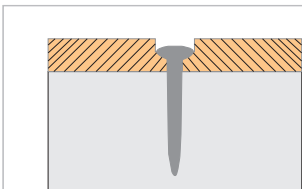
All Ramset™ Gas Technology tools automatically adjust their power to suit the supporting material. These gas technology tools can adjust their power up to a maximum impact energy that is determined by the capability of each tool model. (This is one of the main differences between Ramset™ Gas Technology tools and Powder Actuated tools).

Even though Ramset™ Gas Technology tools automatically adjust their power, certain applications may require the fastener to penetrate deeper into the base material or penetrate less.

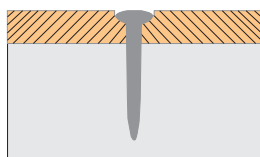
Ramset™ TrakMaster™ and CableMaster™ tools are designed with a feature that allows adjustment of the fastener penetration to be performed. This adjustment is dependent both on the type and hardness of the base material and on the object being fixed. The adjustment does not affect the impact energy that is supplied to the fastener.

To ensure successful fixing of CableMaster™ clips (EClip™ etc.) it is recommended that the CableMaster™ tool is set to the minimum drive position. Failure to do so could result in cracking or breaking of accessories and PVC trunking. The CableMaster™ is supplied adjusted to this position.

Maximum Penetration



Minimum Penetration

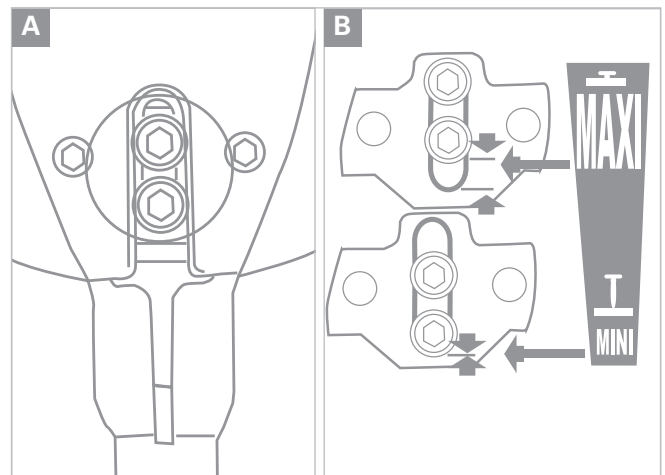


Penetration is adjusted by slackening the two screws (A) on the upper part of the barrel using the allen key provided and moving them backwards or forwards (4mm) in the recess on plate (B).

The adjustment range is 4mm. Intermediate adjustments between maximum and minimum are possible.

For best fixing results, check the adjustment position before and during work.

Adjusting Penetration



Pulsa™ Technology - TrakMaster™ & CableMaster™ Only

As gases are affected by temperature, to generate exactly the same power in a gas technology tool the fuel injector must vary the amount of gas delivered to the combustion chamber. With traditional mechanical fuel delivery systems as found in the TrakFast™ tool this variation is not possible and differences in power are evident at very low (i.e. -5°C) or high temperatures.

However, the TrakMaster™ and CableMaster™ tools use PULSA™ technology which employs temperature dependent Electronic Fuel Injection (E.F.I.) to accurately inject the exact amount of gas that the tool requires no matter what the ambient temperature is. The tool actually detects what the ambient temperature is and calculates the amount of gas to release from the fuel cell. This 'smart' technology ensures that the tool delivers the right amount of power.... every time!

FIXING TECHNOLOGY

CableMaster™ for Mechanical and Electrical Contractors



Substrates

- Concrete
- Composite steel decking
- Solid brick
- Precast
- Steel
- Pre-stressed concrete
- Hollow block wall
- Reinforced concrete
- Reinforced prefabricated concrete

Battery Specification

| | |
|-------------|--------|
| Voltage | 6V |
| Amperage | 600mA |
| Charge time | 1 hour |

The fastest method of mechanical and electrical installation

Using patented gas technology, designed with a number of new features allowing quicker, safer installation with greater user comfort.

Product Advantages

- Cordless - self powered, no setting up time required
- Sequential actuation - safe operation
- Powerful motor (82J)
- Depth-of-drive (Indicated on top of the tool)
- Lock-out feature (safety)
- Fastener guide designed for mechanical and electrical contract work
- 5kg actuation force
- Soft cushioned grip
- Voltage indicator light
- Well balanced
- Compact carrying case
- In-car charger adaptor (accessory)
- Heat sensor controls amount of gas injected, relative to the ambient temperature
- Electronically controlled fuel injection
- Low maintenance. Designed to work in all Australian conditions

Tool Specifications

| | |
|--------------------|---|
| Weight | 3.7kg |
| Height | 383mm |
| Length | 295mm |
| Magazine capacity | 20(+3) pin magazine, [40(+3) pin magazine accessory] |
| Impact force | 82J |
| Actuation pressure | 5kg |
| Overdrive | 4mm |

Cycle Rates

| | |
|-------------------------|---------------------|
| Intermittent operation | 2 pins per second |
| Fuel cell life | 650 pins (approx) |
| Battery charge capacity | 1,000 pins (approx) |

Applications



Cable Management

- Skirting and trunking systems
- Mini trunking systems
- Metal trunking systems
- Steel channel
- Low voltage cabling and temporary lighting
- Cable and basket tray installation
- Fire resistant cabling systems
- Metal and plastic capping

Wiring Accessories

- Metal back boxes
- PVC back boxes
- PVC conduit
- Steel conduit
- Junction boxes
- Switch boxes
- Smoke detectors

Product Range - CableMaster™

| Part No | Description | Order Qty |
|-------------|--|-----------|
| CABLEMASTER | CableMaster™ Pulsa™ Tool + 2 x Batteries | 1 |

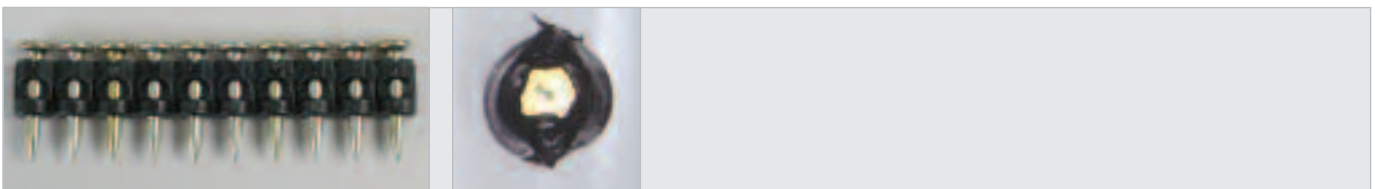
Kit includes: CableMaster™ Pulsa™ tool, high impact carry case, 2 x batteries, battery charger, safety glasses, allen key, dust cover and instruction manual

Product Range - Accessories



| Part No | Description | Order Qty |
|-----------|---|-----------|
| 336800 | CableMaster™ Fastener Guide | 1 |
| 010670 | 40 Pin Magazine | 1 |
| PULSALIFT | Pole Tool (2.4m to 3.8m working height) | 1 |
| PA1613 | Safety Glasses | 1 |
| TMBP | Battery | 1 |
| 900507 | In-car Charger | 1 |
| TMBC | Replacement Charger | 1 |
| TMBCPS | AC / DC Adaptor | 1 |
| B20544L | Gas Tool Degreaser and Lubricant | 1 |

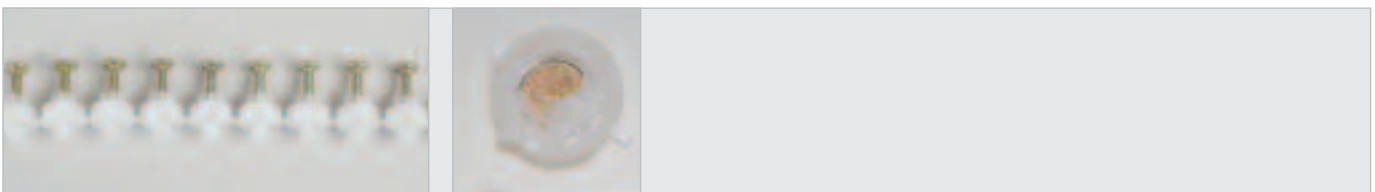
Product Range - All-purpose Pin Range for Steel and Hard Concrete fixing



| Part No | Description | Length | Order Qty |
|---------|-----------------------------|--------|-----------|
| SC615 | Heavy Duty Steel/Concrete | 15mm | 500 |
| SC620 | Heavy Duty Steel/Concrete | 20mm | 500 |
| HC617 | Premium Hard Concrete/Steel | 17mm | 500 |
| HC622 | Premium Hard Concrete/Steel | 22mm | 500 |

10 strip collation (suitable for use in 20 and 40 pin magazines) + 1 x Fuel Cell




Product Range - Soft Washered Pin Range for Steel and Hard Concrete (single shot unsuitable for magazine)




| Part No | Description | Length | Order Qty |
|---------|-------------------|--------|-----------|
| CG620 | Soft Washered Pin | 20mm | 500 |
| CG625 | Soft Washered Pin | 25mm | 500 |
| CG630 | Soft Washered Pin | 30mm | 500 |
| CG635 | Soft Washered Pin | 35mm | 500 |

10 strip collation + 1 x Fuel Cell




Product Range - ClipElec™ All-purpose Cable Tie Clips

|    | | | |
|--|---|--------------------|-----------|
| Part No | Description | Cable Tie Capacity | Order Qty |
| CLIPLEC | ClipElec™ All-purpose Cable Tie | 9mm | 100 |
| CPGCL | ClipElec™ Contractor Pack (500 x clips, SC620 Pins, Fuel Cell, Cable Ties 200mm x 4.8mm Black) | 9mm | 1 |
| CPGCLHC617 | ClipElec™ Hard Concrete Contractor Pack (500 x clips, HC617 Pins, Fuel Cell, Cable Ties 200mm x 4.8mm Black) | 9mm | 1 |
| CPGCLHC622 | ClipElec™ Hard Concrete Contractor Pack (500 x clips, HC622 Pins, Fuel Cell, Cable Ties 200mm x 4.8mm Black) | 9mm | 1 |


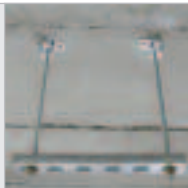
Product Range - CTClip™

|    | | | |
|--|--|-------------------------|-----------|
| Part No | Description | Pipe / Conduit Diameter | Order Qty |
| CTCLIP | Grey Assembled Cable Tie Clip | 16 - 32mm | 100 |
| CPGCT | CTClip™ Contractor Pack Standard (500 x clips, SC620 Pins, Fuel Cell) | 16 - 32mm | 1 |
| CPGCTL | CTClip™ Contractor Pack Large (300 x clips, SC620 Pins, Fuel Cell) | 40 - 63mm | 1 |




Product Range - CableHorn™ Fixing

|    | | | |
|--|--|-------------------------------------|-----------|
| Part No | Description | Fixing Capacity | Order Qty |
| CH140 | Single | 8 Cables (3 x 1.5mm ²) | 50 |
| CABLEHORN | Double | 16 Cables (3 x 1.5mm ²) | 35 |
| CPGCH140 | CableHorn™ Contractor Pack (200 x fixings, SC620 Pins, Fuel Cell) | 8 Cables (3 x 1.5mm ²) | 1 |
| CPGCH | CableHorn™ Contractor Pack (125 x fixings, SC620 Pins, Fuel Cell) | 16 Cables (3 x 1.5mm ²) | 1 |

Product Range - Threaded Rod Hanger

|  | |  | | |
|---|--|---|-----------|--|
| Part No | Description | Thread Diameter | Order Qty | |
| TRH0810 | Threaded Rod Hanger | M8 - M10 | 100 | |
| CPGTRH | Threaded Rod Hanger Contractor Pack | M8 - M10 | 1 | |
| | (400 x hangers, HC617 Pins, Fuel Cell) | | | |

Product Range - FireFix™

|  | |  |  | | |
|---|---|---|---|--|--|
| Part No | Description | Outer Diameter | Order Qty | | |
| CPGFPO2 | FireFix™ Clip Contractor Pack (500 x clips, SC620 Pins, 5 Fastener Guide Adaptors) | 7 - 8.1mm | 1 | | |
| CPGFPO4 | FireFix™ Clip Contractor Pack (500 x clips, SC620 Pins, 5 Fastener Guide Adaptors) | 8 - 9.5mm | 1 | | |

Product Range - ECAV™ Pipe/Tube Clip

|  | |  | | |
|---|---|---|-----------|--|
| Part No | Description | Pipe/Tube Diameter | Order Qty | |
| CPGCAV1623 | ECAV™ Contractor Pack (400 x clips, SC620 Pins, Fuel Cell) | 16 - 23mm | 1 | |

Product Range - EClip™ Conduit Clip



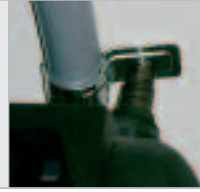
| Part No | Description | Pipe / Conduit Diameter | Order Qty |
|---------|---|-------------------------|-----------|
| ECLIP16 | Grey Conduit Clip | 16mm | 500 |
| ECLIP20 | Grey Conduit Clip | 20mm | 500 |
| ECLIP25 | Grey Conduit Clip | 25mm | 500 |
| ECLIP32 | Grey Conduit Clip | 32mm | 250 |
| CPGEC16 | Contractor Pack (500 x clips, SC620 Pins, Fuel Cell) | 16mm | 1 |
| CPGEC20 | Contractor Pack (500 x clips, SC620 Pins, Fuel Cell) | 20mm | 1 |
| CPGEC25 | Contractor Pack (500 x clips, SC620 Pins, Fuel Cell) | 25mm | 1 |
| CPGEC32 | Contractor Pack (250 x clips, SC620 Pins, Fuel Cell) | 32mm | 1 |

Product Range - Combination Clip (CBC) with Strap





| Part No | Description | Pipe / Conduit Diameter | Order Qty |
|---------|-------------------------------------|-------------------------|-----------|
| 363012 | One Piece Clip with Releasable Clip | 12mm | 100 |
| 363015 | One Piece Clip with Releasable Clip | 15 - 16mm | 100 |
| 363020 | One Piece Clip with Releasable Clip | 20 - 22mm | 100 |
| 363025 | One Piece Clip with Releasable Clip | 25 - 28mm | 100 |
| 363032 | One Piece Clip with Releasable Clip | 32 - 35mm | 50 |
| 363040 | One Piece Clip with Releasable Clip | 40 - 42mm | 50 |
| 363050 | One Piece Clip with Releasable Clip | 50mm | 50 |




Product Range - Direct Alignment Conduit Saddles

|      | | | |
|--|---|-------------------------|-----------|
| Part No | Description | Pipe / Conduit Diameter | Order Qty |
| CPGDAS20 | Direct Alignment Saddle Contractor Pack (400 x saddles, SC620 Pins, Fuel Cell) | 20mm | 1 |
| CPGDAS25 | Direct Alignment Saddle Contractor Pack (400 x saddles, SC620 Pins, Fuel Cell) | 25mm | 1 |

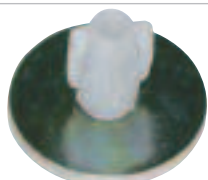
Product Range - Saddles and Saddle Adaptors

|   | | | |
|---|---|-------------------------|-----------|
| Part No | Description | Pipe / Conduit Diameter | Order Qty |
| CSH20 | Half Saddle | 20mm | 100 |
| CSH25 | Half Saddle | 25mm | 100 |
| CPGSH20 | Half Saddle Contractor Pack (400 x saddles, SC620 Pins, Fuel Cell) | 20mm | 1 |
| CPGSH25 | Half Saddle Contractor Pack (400 x saddles, SC620 Pins, Fuel Cell) | 25mm | 1 |
| CSA2025 | Saddle Adaptor | 20/25mm | 1 |
| CSA1632 | Saddle Adaptor | 16/32mm | 1 |

Product Range - Catenary Wire Bracket Assembly

|  |  |  | |
|---|---|---|--|
| Part No | Description | Order Qty | |
| CWKBT | Catenary Wire Bracket Assembly | 100 | |
| CPGCWB | Catenary Wire Bracket Contractor Pack | 1 | |
| | (400 x brackets, SC620 Pins, Fuel Cell, 200mm x 4.8mm Black) | | |

Product Range - Strap and Plate

|  | | |
|---|-----------------|-----------|
| Part No | Description | Order Qty |
| SPMW | Strap and Plate | 500 |

FIXING TECHNOLOGY

TrakMaster™ for Ceiling, Partitioning and General Contractors



Substrates

- Concrete
- Composite steel decking
- Solid brick
- Precast
- Steel
- Pre-stressed concrete
- Hollow block wall
- Reinforced concrete
- Reinforced prefabricated concrete

Battery Specification

| | |
|-------------|--------|
| Voltage | 6V |
| Amperage | 600mA |
| Charge time | 1 hour |

The fastest method of installing partitioning track

Cordless and quick to set up, users can move quickly and effectively without restriction.

Product Advantages

- Cordless - self powered, no set up time required
- Sequential actuation - safe operation
- Depth-of-drive (indicated on top of the tool)
- Lock-out feature (security)
- Belt hook
- Flared fastener guide designed for partitioning track work
- 5kg actuation force
- Soft cushioned grip
- Voltage indicator light
- Compact carrying case
- Well balanced
- Heat sensor controls amount of gas injected, relative to the ambient temperature
- Electronically controlled fuel injection
- Low maintenance. Designed to work in all Australian conditions
- In-car charger accessory

Tool Specifications

| | |
|--------------------|--|
| Weight | 3.7kg |
| Height | 383mm |
| Length | 295mm |
| Magazine capacity | 20 (+3) pin magazine [40 (+3) pin magazine accessory] |
| Impact force | 82J |
| Actuation pressure | 5kg |
| Overdrive | 4mm (adjustable) |

Cycle Rates

| | |
|-------------------------|---------------------|
| Intermittent operation | 2 pins per second |
| Fuel cell life | 650 pins (approx) |
| Battery charge capacity | 1,000 pins (approx) |

Applications



- Fixing partitioning track systems to concrete, masonry, block and structural steel
- Fixing particle board flooring to steel joists
- Fixing termite protective mesh to concrete, brick, block and structural steel
- Fixing timber to concrete, brick, block and structural steel
- Fixing foils, membranes and mesh to concrete, brick, block and structural steel (using 25mm steel washers and magnetic fastener guide)

Product Range - TrakMaster™

| Part No | Description | Order Qty |
|------------|--|-----------|
| TRAKMASTER | TrakMaster™ Pulsar™ Tool + 2 x batteries | 1 |

Kit includes: TrakMaster™ Pulsar™ Tool, high impact carry case, 2 batteries, battery charger, safety glasses, allen key, dust cover and instruction manual

Product Range - Accessories

|  |  |  |  |  |
|---|---|---|---|---|
| Part No | Description | | | Order Qty |
| 333700 | Magnetic Fastener Guide (for use with 25mm washers 011204) | | | 1 |
| 337700 | TrakMaster™ Fastener Guide | | | 1 |
| 010670 | 40 Pin Magazine (for 20 pin magazine) | | | 1 |
| PULSALIFT | Pole Tool (2.4m to 3.8m working height) | | | 1 |
| TMBP | Battery | | | 1 |
| 900507 | In-car Charger | | | 1 |
| PA1613 | Safety Glasses | | | 1 |
| TMBC | Replacement Charger | | | 1 |
| TMBCPS | AC / DC Adaptor | | | 1 |
| B20544L | Gas Tool Degreaser and Lubricant | | | 1 |

Product Range - All-purpose Pin Range for Steel and Concrete Fixing





| Part No | Description | Length | Order Qty |
|--|---|--------|-----------|
| Standard Duty Pin Range | | | |
| C620 | Fixing timber to concrete/light gauge steel | 20mm | 500 |
| C625 | Fixing timber to concrete/light gauge steel | 25mm | 500 |
| C630 | Fixing timber to concrete/light gauge steel | 30mm | 500 |
| C635 | Fixing timber to concrete/light gauge steel | 35mm | 500 |
| 10 strip collation (suitable for use in 20 and 40 pin magazines) + 1 x Fuel Cell | | | |
| Heavy Duty Pin Range | | | |
| SC615 | Heavy Duty Steel/Concrete | 15mm | 500 |
| SC620 | Heavy Duty Steel/Concrete | 20mm | 500 |
| HC617 | Premium Hard Concrete/Steel | 17mm | 500 |
| HC622 | Premium Hard Concrete/Steel | 22mm | 500 |
| 10 strip collation (suitable for use in 20 and 40 pin magazines) + 1 x Fuel Cell | | | |

Product Range - Washers

| Part No | Description | Order Qty |
|---------|-------------|-----------|
| 011204 | Washer 25mm | 1,000 |

FIXING TECHNOLOGY

TrakFast™ Ceiling and Partitioning and General Contractors



The fastest method of installing partitioning track

Tremendous savings when using TrakFast™ for high production fastening.

Product Advantages

- Cordless - self powered, no set up time required
- Sequential actuation - safe operation
- Tool automatically resets piston
- Narrow nose and profile
- Soft cushioned grip
- Carrying case
- Well balanced
- Mechanical fuel injection
- Low maintenance

Substrates

- Concrete
- Composite steel decking
- Solid brick
- Precast
- Steel
- Pre-stressed concrete
- Hollow block wall
- Reinforced concrete
- Reinforced prefabricated concrete

Battery Specification

| | |
|-------------|-----------|
| Voltage | 6V |
| Amperage | 600mA |
| Charge time | 2.5 hours |

Tool Specifications

| | |
|-------------------|----------------------|
| Weight | 4.1kg |
| Height | 450mm |
| Length | 397mm |
| Magazine capacity | 40 (+2) pin magazine |
| Impact force | 77J |

Cycle Rates

| | |
|-------------------------|---------------------|
| Intermittent operation | 2 nails per second |
| Fuel cell life | 1,100 pins (approx) |
| Battery charge capacity | 3,000 pins (approx) |

Applications



- Fixing partitioning track systems to concrete, masonry, block and structural steel
- Fixing timber to concrete, brick, block and structural steel
- Fixing particle board flooring to steel joists

Product Range - TrakFast™

| Part No | Description | Order Qty |
|---------|----------------------------|-----------|
| TF1100 | TrakFast™ Tool + 1 battery | 1 |

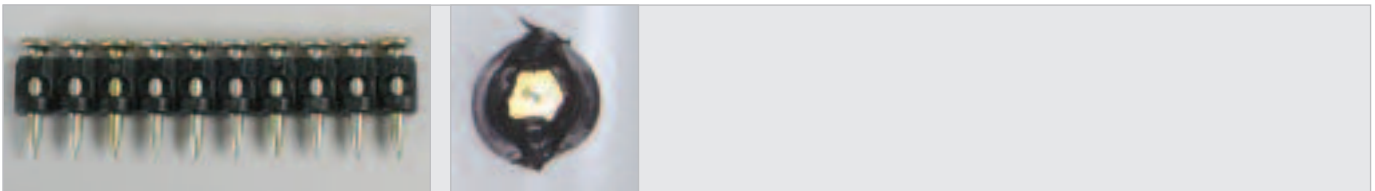
Kit includes: TrakFast™ Tool, high impact carry case, 1 x battery, battery charger, safety glasses and instruction manual

Product Range - Accessories



| Part No | Description | Order Qty |
|---------|----------------------------------|-----------|
| PA1613 | Safety Glasses | 1 |
| B20542 | Battery | 1 |
| TFBC | Battery Charger | 1 |
| TMBCPS | AC / DC Adaptor | 1 |
| TFGAS | Replacement Fuel Cell | 6 |
| 900507 | In-car Charger | 1 |
| B20544L | Gas Tool Degreaser and Lubricant | 1 |

Product Range - All-purpose Pin Range for Steel and Concrete Fixing



| Part No | Description | Length | Order Qty |
|--------------------------------|---------------------|--------|-----------|
| Standard Duty Pin Range | | | |
| FPP012 | 1/2" Standard Pin | 13mm | 1000 |
| FPP034B | 3/4" Standard Pin | 19mm | 1000 |
| FPP100 | 1" Standard Pin | 25mm | 1000 |
| FPP114 | 1 1/4" Standard Pin | 32mm | 1000 |

10 strip collation + 1 x Fuel Cell

Heavy Duty Pin Range

| | | | |
|---------|--------------------------------|------|------|
| FPP012S | 1/2" Heavy Duty Steel/Concrete | 13mm | 1000 |
|---------|--------------------------------|------|------|

Breakaway Pin Range for Concrete Fixing

| | | | |
|---------|---------------------------------|------|------|
| FPP034T | 3/4" Pin with breakaway strip | 19mm | 1000 |
| FPP100T | 1" Pin with breakaway strip | 25mm | 1000 |
| FPP112T | 1 1/2" Pin with breakaway strip | 38mm | 1000 |

10 strip collation + 1 x Fuel Cell

Particleboard Flooring to Steel Joists

| | | | |
|--------|---|------|------|
| PLY138 | 1 3/8" Hard Steel Twist Pin (Helical Knurl) | 35mm | 1000 |
|--------|---|------|------|

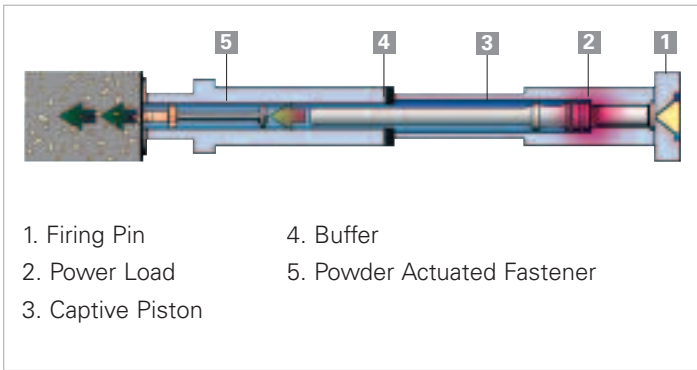
FIXING TECHNOLOGY



POWDER ACTUATED SYSTEMS



Powder Actuated Technology - How it works



Ramset™ Powder Actuated Technology uses a captive piston to transfer the energy from the power load to the fastener. In this way the majority of any excess energy, which is produced by the power load, is absorbed within the tool by the buffer.

Ramset™ Powder Actuated tools are powerful and reliable which allows them to fasten to steel, concrete and masonry year after year.

How to select a Ramset™ Powder Actuated Technology Fixing to directly fasten an object

Fixing to concrete

As the fixing enters the concrete, extreme pressure and heat are created. This creates a bond that provides high loading strength in concrete.

Edge distance

Do not fix closer than 75mm from the edge of concrete. If the concrete cracks, the fixing may not hold.

Recommended minimum fixing spacing

Setting fixings too close together can cause the concrete to crack. The recommended minimum distance between fixings is 75mm. Never attempt a fixing application too close to another fixing as this could affect the previously inserted fixing's embedment.

Concrete thickness

It is important that the concrete be at least three times as thick as the fixing penetration. If the concrete is too thin, the compressive forces forming at the fixing's point can cause the free face of the concrete to break away. This creates a dangerous condition from flying concrete and / or the fixing and also results in a reduction of fastener holding power.

Fixing to steel

The resilience of steel provides a clamping effect to the fixing. This combined with the tremendous heat that is created, provides a welding and clamping effect to give maximum holding power.

Edge distance

The recommended edge distance for a fixing to the edge of steel is 13mm. Never fire the tool within 13mm of the edge of a steel base material because the steel may bend or break off, allowing the fixing to ricochet.

Recommended minimum fastener spacing

The recommended minimum distance between fixings is 25mm. Never attempt a fixing application too close to another fixing as this could affect the previously installed fixing's embedment.

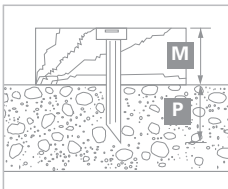
Steel thickness.

Do not fasten into steel base material thinner than the fastener shank diameter. Holding power may be reduced and the fastener may be overdriven.

As a guide when:

- Fixing into steel - min. steel thickness = 4mm

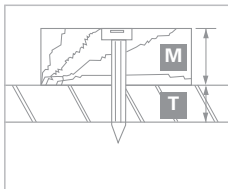
Minimum Shank Length



Minimum Shank Length

Thickness of material (M) + 25mm

Minimum Shank Length



Minimum Shank Length

Thickness of material (M) + Steel Thickness (T) + 6mm point allowance

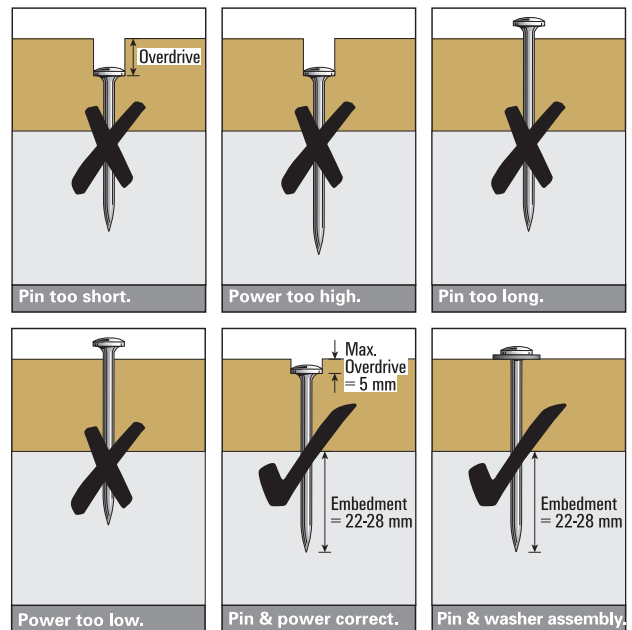
POWDER ACTUATED SYSTEMS

Fastener Selection and Correct Setting

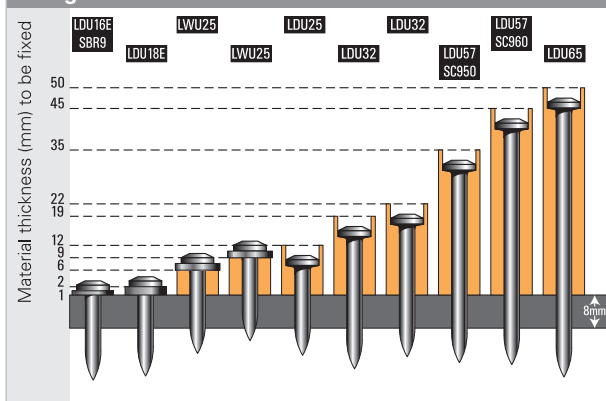
The correct selection and setting of Powder Actuated Fasteners is critical with all tools to ensure a secure fixing and long tool life.

The correct setting of the fastener should be as detailed in the diagrams to avoid excessive overdrive and a secure fix.

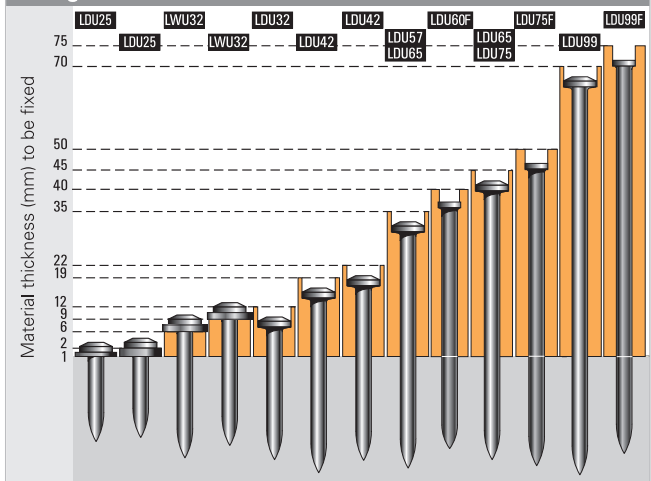
Where possible, a washer (Part No: RCD16F) or a washered fastener should be used. (Application permitting, to reduce overdrive and produce maximum clamping force). Repeated excessive overdrive will result in damage and short life of tool parts.



Fixing Wood or Metal to Steel



Fixing Wood or Metal to Concrete



Powerload Selection Guide - Concrete

| Tool | 20 MPa Concrete | 30 MPa Concrete | 40 MPa Concrete |
|--------------|-----------------|-----------------|-----------------|
| | Low Strength | Medium Strength | High Strength |
| FrameMaster™ | PLSGR22 | PLSYW22 | PLSRD22 |
| FormMaster™ | PLSGR22 | PLSYW22 | PLSRD22 |
| JobMaster™ | PLCGR22S | PLCYW22S | PLCRD22S |
| TyMaster™ | PLSGR22 | PLSYW22 | PLSRD22 |
| InsulFast™ | PLDGR25 | PLDYW25 | PLDYW25 |
| Rocket | PLSGR22 | PLSYW22 | PLSYW22 |

This chart is to be used as a guide only.

Ramset™ recommends to always start a new application with the minimum powerload strength, and if applicable, the tool at minimum power setting, then gradually increase power with load strengths, and if applicable, a combination of power adjustment setting powerload and pin length.

FIXING TECHNOLOGY

Rocket - The Fastest Short Pin Powder Actuated Tool



Rocket - The fastest high volume, short pin tool

Powerful fully automatic tool, performs high volume repetitive short pin fixings with ease.

Product Advantages

- Fast - 10 shot strip feed with automatic advance
- Optimum fixing - power adjustment ensures consistent performance
- Power - adjustable for use with steel or concrete
- Lightweight - minimal operator fatigue
- Minimal maintenance

Substrates

- Concrete
- Steel
- Masonry

Tool Specifications

| | |
|--|------------|
| Weight | 2.2kg |
| Impact Force | 360J |
| Fixing Capacity: | |
| Timber to Concrete | 25mm |
| Timber to Steel | 35mm |
| Metal to Concrete | 3mm |
| Metal to Steel | 3mm |
| Pin Capacity | up to 50mm |
| Overall Length | 435mm |
| Supplied with carry case, maintenance kit & safety glasses | |

Applications



- Fixing partitioning track to concrete and steel
- Fixing steel frame housing to concrete
- Fixing electrical and plumbing clips and brackets to concrete and steel
- Fixing brick ties
- Fixing timber to concrete and steel

Product Range - Rocket

| Part No | Description | Order Qty |
|---------|-------------|-----------|
| ROCKET | Rocket Tool | 1 |

Kit includes: Rocket tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

| Part No | Description | Order Qty |
|---------|---|-----------|
| A1010 | Piston | 1 |
| A1049A | Fastener Guide Assembly | 1 |
| A1130A | Buffer Assembly | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PBT | Drive Pin Removal Tool | 1 |
| PA1613 | Safety Glasses | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Strips

| Part No | Colour | Strength | Order Qty |
|---------|--------|----------|-----------|
| PLSGR22 | Green | Weak | 100 |
| PLSYW22 | Yellow | Medium | 100 |
| PLSRD22 | Red | Strong | 100 |

Product Range - Standard Drive Pins for Concrete, Masonry and Steel

| Part No | Drive Pin Length | Max Fixture (thickness to steel) | Max Fixture (thickness to concrete) | Order Qty |
|---------|------------------|-------------------------------------|--|-----------|
| LDU25 | 25mm | 12mm | 2mm* | 100 |
| LDU32 | 32mm | 20mm | 7mm | 100 |
| LDU38 | 38mm | 25mm | 12mm | 100 |
| LDU42 | 42mm | 30mm | 20mm | 100 |
| LDU50 | 50mm | 35mm | 25mm | 100 |

* Denotes steel fixture only

Product Range - Drive Pins for fixing thin Steel to Steel

| Part No | Description | Drive Pin Length | Order Qty |
|---------|-------------------|------------------|-----------|
| LDU14E | Standard Duty | 14mm | 100 |
| LDU16E | Standard Duty | 16mm | 100 |
| LDU18E | Standard Duty | 18mm | 100 |
| SP12 | Premium Steel Pin | 13mm | 100 |

Product Range - Washered Drive Pins for Concrete / Masonry

| Part No | Washer Diameter | Drive Pin Length | Order Qty |
|---------|-----------------|------------------|-----------|
| LWU25 | 16mm | 25mm | 100 |
| LWU32 | 16mm | 32mm | 100 |
| LLU25 | 22mm | 25mm | 100 |
| LLU32 | 22mm | 32mm | 100 |

Product Range - Angle Bracket Assemblies / Catenary Wire Brackets for Suspended Ceilings

| Part No | Description | Drive Pin Length | Order Qty |
|---------|------------------------|------------------|-----------|
| LAU25 | Standard Duty | 25mm | 100 |
| LAU32 | Through Fixture Fixing | 32mm | 100 |
| LAU30H | Heavy Duty | 25mm | 100 |

Product Range - Electrical and Plumbing Fixing Assemblies

| Part No | Description | Order Qty |
|---------|----------------------------|-----------|
| PT08200 | PA Pipe Tie - 200mm | 100 |
| CHP25 | PA CableHorn™ pin assembly | 100 |

Product Range - M6 Threaded Studs

| Part No | Description | Shank Length | Thread Length | Order Qty |
|------------|----------------------------|--------------|---------------|-----------|
| LSU12M609E | Threaded Stud for Steel | 12mm | 9mm | 100 |
| LTU30M616 | Threaded Stud for Concrete | 30mm | 16mm | 100 |

FIXING TECHNOLOGY

FrameMaster™ TS750P - Power Adjustable Tool



Substrates

- Concrete
- Steel
- Masonry

FrameMaster™ TS750P – the timber framing expert

Power adjustable tool for fixing timber framing to concrete & general repetitive work.

Product Advantages

- Fast – 10 shot strip feed with automatic advance
- Optimum fixing – positive power adjustment ensures consistent performance
- Power – adjustable for use with steel or concrete
- Minimal maintenance – easy to dismantle & clean to reduce downtime
- Long Life – long life piston & buffer

Tool Specifications

| | |
|--|------------|
| Weight | 2.5kg |
| Impact force | 300J |
| Fixing capacity: | |
| Timber to concrete | 60mm |
| Timber to steel | 50mm |
| Metal to concrete | 3mm |
| Metal to steel | 3mm |
| Pin capacity | up to 85mm |
| Overall length | 380mm |
| Supplied with carry case, maintenance kit & safety glasses | |

Applications



- Fixing timber to concrete & steel
- Fixing partitioning track to concrete & steel
- Threaded pin applications to concrete & steel
- Fixing brick ties

Product Range - FrameMaster™ TS750P

| Part No | Description | Order Qty |
|---------|--------------------------|-----------|
| TS750P | FrameMaster™ TS750P tool | 1 |

Kit includes: FrameMaster™ tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

| Part No | Description | Order Qty |
|---------|---|-----------|
| PA27833 | Piston Assembly - Standard | 1 |
| PA27432 | Piston Assembly - High Power | 1 |
| PA27831 | Fastener Guide Assembly | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PBT | Drive Pin Removal Tool | 1 |
| PA1613 | Safety Glasses | 1 |
| PA27580 | Spall Shield | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Strips

| Part No | Colour | Strength | Order Qty |
|---------|--------|----------|-----------|
| PLSGR22 | Green | Weak | 100 |
| PLSYW22 | Yellow | Medium | 100 |
| PLSRD22 | Red | Strong | 100 |

Product Range - Standard Drive Pins for Concrete, Masonry and Steel

| Part No | Drive Pin Length | Max Fixture (thickness to steel) | Max Fixture (thickness to concrete) | Order Qty |
|---------|------------------|-------------------------------------|--|-----------|
| LDU25 | 25mm | 12mm | 2mm* | 100 |
| LDU32 | 32mm | 20mm | 7mm | 100 |
| LDU38 | 38mm | 25mm | 12mm | 100 |
| LDU42 | 42mm | 30mm | 20mm | 100 |
| LDU50 | 50mm | 35mm | 25mm | 100 |
| LDU57 | 57mm | 45mm | 35mm | 100 |
| LDU65 | 65mm | 50mm | 45mm | 100 |
| LDU75 | 75mm | N/A | 50mm | 100 |

* Denotes steel fixture only

Product Range - Timber Formwork Pins for Concrete for easy pin removal

| Part No | Drive Pin Length | Max Timber Thickness | Order Qty |
|---------|------------------|----------------------|-----------|
| LDU60F | 60mm | 35mm | 250 |
| LDU75F | 75mm | 50mm | 200 |

Product Range - Drive Pins for fixing thin Steel to Steel

| Part No | Description | Drive Pin Length | Order Qty |
|---------|-------------------|------------------|-----------|
| LDU14E | Standard Duty | 14mm | 100 |
| LDU16E | Standard Duty | 16mm | 100 |
| LDU18E | Standard Duty | 18mm | 100 |
| SP12 | Premium Steel Pin | 13mm | 100 |

Product Range - Washered Drive Pins for Concrete / Masonry

| Part No | Washer Diameter | Drive Pin Length | Max Fixture (thickness to concrete) | Order Qty |
|---------|-----------------|------------------|--|-----------|
| LWU25 | 16mm | 25mm | 2mm* | 100 |
| LWU32 | 16mm | 32mm | 7mm | 100 |
| LWU75 | 16mm | 75mm | 50mm | 100 |
| LLU25 | 22mm | 25mm | 2mm* | 100 |
| LLU32 | 22mm | 32mm | 7mm | 100 |

* Denotes steel fixture only

Product Range - Angle Bracket Assemblies / Catenary Wire Brackets for Suspended Ceilings

| Part No | Description | Drive Pin Length | Order Qty |
|---------|------------------------|------------------|-----------|
| LAU25 | Standard Duty | 25mm | 100 |
| LAU32 | Through Fixture Fixing | 32mm | 100 |

Product Range - Drive Pins for Fixing Insulation and Waterproofing Membranes

| Part No | Description | Drive Pin Length | Max Fixture (thickness to concrete) | Order Qty |
|---------|---------------------------------|------------------|--|-----------|
| CR950P | Soft Washered Membrane Fastener | 50mm | 25mm | 200 |

Product Range - Electrical and Plumbing Fixing Assemblies

| Part No | Description | Order Qty |
|---------|----------------------------|-----------|
| PT08200 | PA Pipe Tie - 200mm | 100 |
| CHP25 | PA CableHorn™ pin assembly | 100 |

Product Range - M6 Threaded Studs

| Part No | Description | Shank Length | Thread Length | Order Qty |
|------------|----------------------------|--------------|---------------|-----------|
| LSU12M609E | Threaded Stud for Steel | 12mm | 9mm | 100 |
| LTU30M616 | Threaded Stud for Concrete | 30mm | 16mm | 100 |

FIXING TECHNOLOGY

FormMaster™ - High Powered Tool



Substrates

- Concrete
- Steel
- Masonry

FormMaster™ - The professional's choice for long pin fixing

High powered fastening system with the power and comfort to meet the demands of the timber and steel formwork industry and heavier repetitive fixing jobs.

Product Advantages

- Fast – 10 shot strip feed with automatic advance
- Optimum fixing – positive power adjustment ensures consistent performance
- Power – adjustable for use with steel or concrete
- Front barrel safety grip & hand guard – all day use comfort
- Minimal maintenance – easy to dismantle & clean to reduce downtime
- Long Life – long life piston & buffer

Tool Specifications

| | |
|--|-------------|
| Weight | 3.0kg |
| Impact force | 400J |
| Fixing capacity: | |
| Timber to concrete | 75mm |
| Timber to steel | 50mm |
| Metal to concrete | 3mm |
| Metal to steel | 3mm |
| Pin capacity | up to 100mm |
| Overall length | 448mm |
| Supplied with carry case, maintenance kit & safety glasses | |

Applications



- Fixing timber formwork to concrete
- Fixing timber bottom plates to structural steel
- Fixing timber to concrete & steel
- Fixing sacrificial/permanent steel formwork to structural steel
- Threaded pin applications to concrete & steel

Product Range - FormMaster™

| Part No | Description | Order Qty |
|------------|------------------|-----------|
| FORMMASTER | FormMaster™ Tool | 1 |

Kit includes: FormMaster™ tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

| Part No | Description | Order Qty |
|----------|---|-----------|
| PA28811 | Piston Assembly | 1 |
| PA312860 | Buffer x 5 | 1 |
| PA28816 | Fastener Guide Assembly | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PBT | Drive Pin Removal Tool | 1 |
| PA1613 | Safety Glasses | 1 |
| PA310000 | Spall Shield | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Strips

| Part No | Colour | Strength | Order Qty |
|---------|--------|----------|-----------|
| PLSGR22 | Green | Weak | 100 |
| PLSYW22 | Yellow | Medium | 100 |
| PLSRD22 | Red | Strong | 100 |

Product Range - Standard Drive Pins for Concrete, Masonry and Steel

| Part No | Drive Pin Length | Max Fixture (thickness to steel) | Max Fixture (thickness to concrete) | Order Qty |
|---------|------------------|-------------------------------------|--|-----------|
| LDU25 | 25mm | 12mm | 2mm* | 100 |
| LDU32 | 32mm | 20mm | 7mm | 100 |
| LDU38 | 38mm | 25mm | 12mm | 100 |
| LDU42 | 42mm | 30mm | 20mm | 100 |
| LDU50 | 50mm | 35mm | 25mm | 100 |
| LDU57 | 57mm | 45mm | 35mm | 100 |
| LDU65 | 65mm | 50mm | 45mm | 100 |
| LDU75 | 75mm | N/A | 50mm | 100 |
| LDU90 | 90mm | N/A | 65mm | 100 |
| LDU99 | 100mm | N/A | 75mm | 100 |

* Denotes steel fixture only

Product Range - Timber Formwork Pins for Concrete and easy pin removal

| Part No | Drive Pin Length | Max. Timber Thickness | Order Qty |
|---------|------------------|-----------------------|-----------|
| LDU60F | 60mm | 35mm | 250 |
| LDU75F | 75mm | 50mm | 250 |
| LDU99F | 100mm | 75mm | 250 |

Product Range - Drive Pins for fixing thin Steel to Steel

| Part No | Description | Drive Pin Length | Order Qty |
|---------|-------------------|------------------|-----------|
| LDU14E | Standard Duty | 14mm | 100 |
| LDU16E | Standard Duty | 16mm | 100 |
| LDU18E | Standard Duty | 18mm | 100 |
| SP12 | Premium Steel Pin | 13mm | 100 |

Product Range - Drive Pins for Structural Steel

| Part No | Description | Drive Pin Length | Timber Thickness | Order Qty |
|---------|--------------------------------|------------------|------------------|-----------|
| SC950 | Timber to Structural Steel Pin | 50mm | 35mm | 100 |
| SC950W | Frame & Truss Washered Pin | 50mm | 35mm | 100 |
| SC960 | Timber to Structural Steel Pin | 60mm | 45mm | 100 |
| SC960W | Frame & Truss Washered Pin | 60mm | 45mm | 100 |

Product Range - Washered Drive Pins for Concrete / Masonry

| Part No | Washer Diameter | Drive Pin Length | Max Fixture (thickness to concrete) | Order Qty |
|---------|-----------------|------------------|--|-----------|
| LWU25 | 16mm | 25mm | 2mm* | 100 |
| LWU32 | 16mm | 32mm | 7mm | 100 |
| LWU75 | 16mm | 75mm | 50mm | 100 |
| LLU25 | 22mm | 25mm | 2mm* | 100 |
| LLU32 | 22mm | 32mm | 7mm | 100 |

* Denotes steel fixture only

Product Range - Washered Drive Pins for fixing to Steel of any thickness of 4mm or more (Sacrificial Steel Formwork)



| Part No | Washer Diameter | Drive Pin Length | Order Qty |
|---------|-----------------|------------------|-----------|
| SBR9 | 14mm | 22mm | 100 |

* Suitable for use with Kingflor®, Bondek®, CondeckHP®

Product Range - Electrical and Plumbing Fixing Assemblies

| Part No | Description | Order Qty |
|---------|------------------------------|-----------|
| PT08200 | PA Pipe Tie - 200mm | 100 |
| CHP25 | PA CableHorn™ pin assembly | 100 |
| LZU30H | PA Threaded Rod Hanger - M10 | 100 |

FIXING TECHNOLOGY

TyMaster™ - The Overhead Tool



Substrates

- Concrete
- Steel
- Masonry

TyMaster™ - Effortless Overhead Fixing

Fully automatic tool with extension pole for efficient, remote, overhead fixing of suspended ceilings and services installations.

Product Advantages

- Fast 10 shot strip feed with automatic advance
- Lightweight – reduced fatigue in overhead operation
- Fully automatic – high install rate
- Safe – patented “Breech lockout” means it can only fire in vertical up position
- Minimal maintenance

Tool Specifications

| | |
|---|------------|
| Weight | 2.3kg |
| Impact force | 320J |
| Fixing capacity: | |
| Metal to concrete | 3mm |
| Metal to steel | 3mm |
| Pin capacity | up to 32mm |
| Overall length (including pole) | 2000mm |
| Supplied with carry case, 1560mm (3 x 520mm) pole extension, maintenance kit & safety glasses | |

Applications



- Overhead fixing of Catenary brackets to concrete and steel
- Overhead fixing of electrical and plumbing clips and brackets to concrete and steel
- Overhead fixing of metal to concrete
- Overhead fixing of metal to steel

Product Range - TyMaster™

| Part No | Description | Order Qty |
|----------|----------------|-----------|
| TYMASTER | TyMaster™ Tool | 1 |

Kit includes: TyMaster™ tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

| Part No | Description | Order Qty |
|---------|---|-----------|
| 653116 | Piston Standard | 1 |
| PAT1085 | Piston High Power | 1 |
| 653021 | Buffer x 3 | 1 |
| 653106 | Fastener Guide Assembly | 1 |
| 653035 | Spall Shield | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PBT | Drive Pin Removal Tool | 1 |
| PA1613 | Safety Glasses | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Strips

| Part No | Colour | Strength | Order Qty |
|---------|--------|----------|-----------|
| PLSGR22 | Green | Weak | 100 |
| PLSYW22 | Yellow | Medium | 100 |
| PLSRD22 | Red | Strong | 100 |

Product Range - Standard Drive Pins for Concrete, Masonry and Steel

| Part No | Drive Pin Length | Max Fixture (thickness to steel) | Max Fixture (thickness to concrete) | Order Qty |
|---------|------------------|-------------------------------------|--|-----------|
| LDU25 | 25mm | 12mm | 2mm* | 100 |
| LDU32 | 32mm | 20mm | 7mm | 100 |

* Denotes steel fixture only

Product Range - Drive Pins for fixing thin Steel to Steel

| Part No | Description | Drive Pin Length | Order Qty |
|---------|-------------------|------------------|-----------|
| LDU14E | Standard Duty | 14mm | 100 |
| LDU16E | Standard Duty | 16mm | 100 |
| LDU18E | Standard Duty | 18mm | 100 |
| SP12 | Premium Steel Pin | 13mm | 100 |

Product Range - Washered Drive Pins for Concrete / Masonry

| Part No | Washer Diameter | Drive Pin Length | Order Qty |
|---------|-----------------|------------------|-----------|
| LWU25 | 16mm | 25mm | 100 |
| LWU32 | 16mm | 32mm | 100 |
| LLU25 | 22mm | 25mm | 100 |
| LLU32 | 22mm | 32mm | 100 |

Product Range - Angle Bracket Assemblies / Catenary Wire Brackets for Suspended Ceilings



| Part No | Description | Drive Pin Length | Order Qty |
|---------|------------------------|------------------|-----------|
| LAU25 | Standard Duty | 25mm | 100 |
| LAU32 | Through Fixture Fixing | 32mm | 100 |
| LAU30H | Heavy Duty | 25mm | 100 |

Product Range - Electrical and Plumbing Fixing Assemblies

| Part No | Description | Order Qty |
|---------|------------------------------|-----------|
| PT08200 | PA Pipe Tie - 200mm | 100 |
| CHP25 | PA CableHorn™ pin assembly | 100 |
| LZU30H | PA Threaded Rod Hanger - M10 | 100 |

Product Range - M6 Threaded Studs

| Part No | Description | Shank Length | Thread Length | Order Qty |
|------------|-------------------------|--------------|---------------|-----------|
| LSU12M609E | Threaded Stud for Steel | 12mm | 9mm | 100 |

FIXING TECHNOLOGY

JobMaster™ - General Purpose Tool



JobMaster™ - The amazing all rounder

The powerful general purpose tool for the less frequent user – essential for every contractor's toolbox.

Product Advantages

- Versatile – suitable for most applications
- Minimal maintenance – easy to dismantle & clean, to reduce downtime
- Power – determined by the power load used
- Operation – single shot

Substrates

- Concrete
- Steel
- Masonry

Tool Specifications

| | |
|--|------------|
| Weight | 2.2kg |
| Impact force | 350J |
| Fixing capacity: | |
| Timber to concrete | 50mm |
| Timber to steel | 50mm |
| Metal to concrete | 3mm |
| Metal to steel | 3mm |
| Pin Capacity | up to 75mm |
| Overall length | 375mm |
| Supplied with carry case, maintenance kit & safety glasses | |

Applications



- Fixing timber to concrete & steel
- Fixing partitioning track to concrete & steel
- Threaded pin applications to concrete & steel
- Fixing brick ties

Product Range - JobMaster™

| Part No | Description | Order Qty |
|-----------|-----------------|-----------|
| JOBMASTER | JobMaster™ Tool | 1 |

Kit includes: JobMaster™ tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

| Part No | Description | Order Qty |
|----------|---|-----------|
| PA28113 | Piston Assembly | 1 |
| PA28235 | Buffer x 5 | 1 |
| PA28230 | Fastener Guide Assembly | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PBT | Drive Pin Removal Tool | 1 |
| PA1613 | Safety Glasses | 1 |
| PA310000 | Spall Shield | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Cartridges

| Part No | Colour | Strength | Order Qty |
|----------|--------|----------|-----------|
| PLCGR22S | Green | Weak | 100 |
| PLCYW22S | Yellow | Medium | 100 |
| PLCRD22S | Red | Strong | 100 |

Product Range - Standard Drive Pins for Concrete, Masonry and Steel

| Part No | Drive Pin Length | Max Fixture (thickness to steel) | Max Fixture (thickness to concrete) | Order Qty |
|---------|------------------|-------------------------------------|--|-----------|
| LDU25 | 25mm | 12mm | 2mm* | 100 |
| LDU32 | 32mm | 20mm | 7mm | 100 |
| LDU38 | 38mm | 25mm | 12mm | 100 |
| LDU42 | 42mm | 30mm | 20mm | 100 |
| LDU50 | 50mm | 35mm | 25mm | 100 |
| LDU57 | 57mm | 45mm | 35mm | 100 |
| LDU65 | 65mm | 50mm | 45mm | 100 |
| LDU75 | 75mm | N/A | 50mm | 100 |

* Denotes steel fixture only

Product Range - Drive Pins for fixing thin Steel to Steel

| Part No | Description | Drive Pin Length | Order Qty |
|---------|-------------------|------------------|-----------|
| LDU14E | Standard Duty | 14mm | 100 |
| LDU16E | Standard Duty | 16mm | 100 |
| LDU18E | Standard Duty | 18mm | 100 |
| SP12 | Premium Steel Pin | 13mm | 100 |

Product Range - Drive Pins for Structural Steel

| Part No | Description | Drive Pin Length | Timber Thickness | Order Qty |
|---------|--------------------------------|------------------|------------------|-----------|
| SC950 | Timber to Structural Steel Pin | 50mm | 35mm | 100 |
| SC950W | Frame & Truss Washered Pin | 50mm | 35mm | 100 |
| SC960 | Timber to Structural Steel Pin | 60mm | 45mm | 100 |
| SC960W | Frame & Truss Washered Pin | 60mm | 45mm | 100 |

Product Range - Washered Drive Pins for Concrete / Masonry

| Part No | Washer Diameter | Drive Pin Length | Max Fixture (thickness to concrete) | Order Qty |
|---------|-----------------|------------------|--|-----------|
| LWU25 | 16mm | 25mm | 2mm* | 100 |
| LWU32 | 16mm | 32mm | 7mm | 100 |
| LWU75 | 16mm | 75mm | 50mm | 100 |
| LLU25 | 22mm | 25mm | 2mm* | 100 |
| LLU32 | 22mm | 32mm | 7mm | 100 |

* Denotes steel fixture only

Product Range - Washered Drive Pins for fixing to Steel of any thickness of 4mm or more

| Part No | Washer Diameter | Drive Pin Length | Order Qty |
|---------|-----------------|------------------|-----------|
| SBR9 | 14mm | 22mm | 100 |

* Suitable for use with Kingflor®, Bondek®, CondeckHP®

Product Range - Angle Bracket Assemblies / Catenary Wire Brackets for Suspended Ceilings

| Part No | Description | Drive Pin Length | Order Qty |
|---------|------------------------|------------------|-----------|
| LAU25 | Standard Duty | 25mm | 100 |
| LAU32 | Through Fixture Fixing | 32mm | 100 |
| LAU30H | Heavy Duty | 25mm | 100 |

Product Range - Electrical and Plumbing Fixing Assemblies

| Part No | Description | Order Qty |
|---------|------------------------------|-----------|
| PT08200 | PA Pipe Tie - 200mm | 100 |
| CHP25 | PA CableHorn™ pin assembly | 100 |
| LZU30H | PA Threaded Rod Hanger - M10 | 100 |

Product Range - M6 Threaded Studs

| Part No | Description | Shank Length | Thread Length | Order Qty |
|------------|----------------------------|--------------|---------------|-----------|
| LSU12M609E | Threaded Stud for Steel | 12mm | 9mm | 100 |
| LTU30M616 | Threaded Stud for Concrete | 30mm | 16mm | 100 |

FIXING TECHNOLOGY

InsulFast™ - Insulation Fastening Tool



InsulFast™ - for Insulation

The fastest method for fixing insulation to concrete, masonry block and structural steel.

Product Advantages

- Fully automatic operation
- Power loads assembled in discs of 10
- Powder actuated tool for powerful operation
- Power adjustment
- Rubber grip and shock absorber for user comfort
- Simple design for ease of maintenance

Tool Specifications

| | |
|--|-------------------------------|
| Weight | 3.0kg |
| Impact force | 380J |
| Power Loads | 6.3 x 10mm (disc of 10 loads) |
| Overall length | 490mm |
| Supplied with carry case, maintenance kit and safety glasses | |

Substrates

- Concrete
- Masonry
- Steel

Applications



- Fast fixing of expanded polystyrene and blanket insulation to concrete, masonry, block and structural steel
- Ideal solution for fast fixing of insulation to concrete in overhead applications

Product Range - InsulFast™

| Part No | Description | Order Qty |
|-----------|-----------------|-----------|
| INSULFAST | InsulFast™ Tool | 1 |

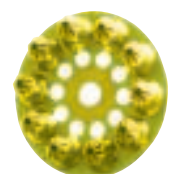
Kit includes: InsulFast™ tool, high impact carry case, safety glasses, maintenance kit and instruction manual.

POWDER ACTUATED SYSTEMS

Product Range - Accessories

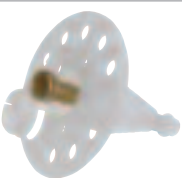
| Part No | Description | Order Qty |
|---------|--|-----------|
| 011031 | Piston - includes Piston Return Spring | 1 |
| 011032 | Piston Return Spring x 2 | 1 |
| 011030 | Fastener Guide Assembly includes Piston and Piston Return Spring | 1 |
| PA9316 | PA Lubricating and Release Oil | 1 |
| PA1613 | Safety Glasses | 1 |
| PAWS8 | Explosive Tool in Use - Safety Warning Sign | 1 |

Product Range - Power Load Discs



| Part No | Colour | Strength | Order Qty |
|---------|--------|----------|-----------|
| PLDGR25 | Green | Weak | 100 |
| PLDYW25 | Yellow | Medium | 100 |

Product Range - Insulation Fasteners 60mm diameter for Concrete, Masonry and Steel



| Part No | Insulation Thickness | Order Qty |
|---------|----------------------|-----------|
| CI640 | 40mm | 200 |
| CI650 | 50mm | 200 |
| CI670 | 70 - 75mm | 200 |
| CI690 | 90 - 100mm | 200 |

DekMaster™ Cartridge Tool



High powered cartridge tool for structural steel applications

Easy to use, semi-automatic and efficient. The DekMaster™ offers the contractor high power and patented safety systems when fixing steel to steel.

Product Advantages

- Reliable : The MAC (Piston Control System) is exclusive to Ramset™
- The pin will not pass through the steel sheet if it is not driven into the base material
- Fixes to steel (6mm and greater)

Substrates

- Steel

Tool Specifications

| | |
|--|-------|
| Weight | 3.5kg |
| Impact Force | 520J |
| Overall Length | 355mm |
| Supplied with carry case, maintenance kit and safety glasses | |

Applications



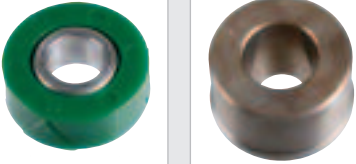
- Fixing roof decking and cladding sheets to structural steel
- Fixing sacrificial/permanent steel formwork such as KingFlor®, Bondek®, CondeckHP® and other profiled steel sheets to steel structures

Product Range - DekMaster™ Cartridge Tool


| Part No | Description | Order Qty |
|--|--|-----------|
| D230 | High powered fixing tool for structural steel applications | 1 |
| Kit includes: DekMaster™ Tool, high impact lightweight carry case, safety goggles, cleaning cloth, cleaning brushes, lubricating oil, instruction manual | | |

POWDER ACTUATED SYSTEMS


Product Range - Accessories

|  | | |
|---|---|-----------|
| Part No | Description | Order Qty |
| PA311560 | Overdrive Ring Assembly | 1 |
| PA313350 | Energy Absorber | 1 |
| PA311590 | Piston | 1 |
| PA1613 | Safety Glasses | 1 |
| PA9316 | Lubricating Oil | 1 |
| PAWS8 | Explosive tool in Use - Safety Warning Sign | 1 |

Product Range - Dekmaster™ Disc Cartridges

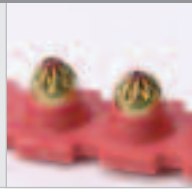
|  | | | | | |
|--|----------|--------|--------|---------------|-----------|
| Part No | Diameter | Length | Colour | Strength | Order Qty |
| PLDYW25X | 6.3mm | 16mm | Yellow | Medium | 100 |
| PLDBU25X | 6.3mm | 16mm | Blue | Medium Strong | 100 |
| PLDRD25X | 6.3mm | 16mm | Red | Strong | 100 |

Product Range - Sacrificial/Permanent Steel Formwork Pins

|  | | | |
|---|---------------|--------------|-----------|
| Part No | Head Diameter | Shank Length | Order Qty |
| LHS22 | 14mm | 22mm | 100 |

FIXING TECHNOLOGY

Powerloads to suit Hilti™, DX 351, DX 460, DX A40, DX A41, DX 36



| Part No | Diameter | Length | Colour | Strength | Order Qty |
|---------|----------|--------|--------|----------|-----------|
| PLSGR22 | 6.8mm | 11mm | Green | Weak | 100 |
| PLSYW22 | 6.8mm | 11mm | Yellow | Medium | 100 |
| PLSRD22 | 6.8mm | 11mm | Red | Strong | 100 |

Drive Pins to suit Hilti™, DX 351, DX 460, DX A40, DX A41, DX 36 Single Shot Tools

| Part No | Head Diameter | Length | Max Fixture (Thickness to steel) | Max Fixture (Thickness to Concrete) | Order Qty |
|---------|---------------|--------|-------------------------------------|--|-----------|
| RHP16K | 8mm | 16mm | 1mm | N/A | 100 |
| RHP19K | 8mm | 19mm | 3mm | N/A | 100 |
| RHP22 | 8mm | 22mm | 10mm | 1mm | 100 |
| RHP27 | 8mm | 27mm | 14mm | 3mm | 100 |
| RHP32 | 8mm | 32mm | 20mm | 7mm | 100 |
| RHP37 | 8mm | 37mm | 24mm | 11mm | 100 |
| RHP42 | 8mm | 42mm | 30mm | 20mm | 100 |
| RHP47 | 8mm | 47mm | 35mm | 25mm | 100 |
| RHP52 | 8mm | 52mm | 37mm | 27mm | 100 |
| RHP57 | 8mm | 57mm | 45mm | 35mm | 100 |
| RHP62 | 8mm | 62mm | 47mm | 42mm | 100 |
| RHP72 | 8mm | 72mm | 62mm | 47mm | 100 |

Collated Drive Pins to suit Hilti™, DX 351, DX 460, DX A40, DX A41 Magazine Tools

| Part No | Head Diameter | Length | Max Fixture (Thickness to steel) | Max Fixture (Thickness to Concrete) | Order Qty |
|---------|---------------|--------|-------------------------------------|--|-----------|
| RHC16K | 8mm | 16mm | 1mm | N/A | 100 |
| RHC22 | 8mm | 22mm | 10mm | 1mm | 100 |
| RHC27 | 8mm | 27mm | 14mm | 3mm | 100 |
| RHC32 | 8mm | 32mm | 20mm | 7mm | 100 |
| RHC37 | 8mm | 37mm | 24mm | 11mm | 100 |
| RHC42 | 8mm | 42mm | 30mm | 20mm | 100 |
| RHC47 | 8mm | 47mm | 35mm | 25mm | 100 |
| RHC52 | 8mm | 52mm | 37mm | 27mm | 100 |
| RHC57 | 8mm | 57mm | 45mm | 35mm | 100 |
| RHC62 | 8mm | 62mm | 47mm | 42mm | 100 |
| RHC72 | 8mm | 72mm | 62mm | 47mm | 100 |

Product Range - Accessories

| Part No | Description | Order Qty |
|---------|-----------------|-----------|
| RCA25F | 25mm Angle Clip | 100 |
| RCA38C | 38mm Angle Clip | 100 |
| RCD16F | 16mm Disc | 100 |
| RCD22F | 22mm Disc | 100 |

POWDER ACTUATED SYSTEMS

Powerloads to suit Previous Ramset™ Tools - J20S, J20, 1/4" Barrel

| Part No | Diameter | Length | Colour | Strength | Order Qty |
|----------|----------|--------|--------|-------------|-----------|
| PLCGR22S | 5.6mm | 16mm | Green | Weak | 100 |
| PLCYW22S | 5.6mm | 16mm | Yellow | Medium | 100 |
| PLCRD22S | 5.6mm | 16mm | Red | Strong | 100 |
| PLCPU22S | 5.6mm | 16mm | Purple | Very Strong | 100 |

Drive Pins to suit Previous Ramset™ Tools - J20S, J20, 1/4" Barrel

| Part No | Head Diameter | Length | Order Qty |
|---------|---------------|--------|-----------|
| HDB32 | 6.3mm | 32mm | 100 |
| HDB38 | 6.3mm | 38mm | 100 |
| HDB50 | 6.3mm | 50mm | 100 |
| HDB64 | 6.3mm | 64mm | 100 |
| HDB75 | 6.3mm | 75mm | 100 |
| HDB95 | 6.3mm | 95mm | 100 |

Strip Powerloads to suit Previous Ramset™ Tools - Striker™, FixMaster™ (TS60P)

| Part No | Diameter | Length | Colour | Strength | Order Qty |
|---------|----------|--------|--------|----------|-----------|
| PLSGR22 | 6.8mm | 11mm | Green | Weak | 100 |
| PLSYW22 | 6.8mm | 11mm | Yellow | Medium | 100 |
| PLSRD22 | 6.8mm | 11mm | Red | Strong | 100 |

Collated Drive Pins for Previous Ramset™ Magazine Tools - Striker™, TM40

| Part No | Length | Order Qty |
|---------|--------|-----------|
| LDM25 | 25mm | 100 |
| LDM40 | 40mm | 100 |

Powerloads to suit Previous Ramset™ Tools - D200, D90, D60

| Part No | Diameter | Length | Colour | Strength | Order Qty |
|----------|----------|--------|--------|----------|-----------|
| PLDGR25 | 6.3mm | 10mm | Green | Weak | 100 |
| PLDYW25 | 6.3mm | 10mm | Yellow | Medium | 100 |
| PLDRD25L | 6.3mm | 12mm | Red | Strong | 100 |

Powerloads to suit Previous Ramset™ Tools - E45, JP50, JP88

| Part No | Diameter | Length | Colour | Strength | Order Qty |
|----------|----------|-------------|--------|-------------|-----------|
| PLCPU22N | 5.6mm | 16mm Necked | Purple | Very Strong | 100 |

Notes

[illegible]

Notes





RCG600 Caulking Gun



Function

Caulking gun for the fast application of sausage cartridges up to 600ml and sealant cartridges up to 300ml

Product Advantages

- Pneumatic function reducing the risk of the plunger breaking the sausage and damaging the tool
- Increased speed
- Increased productivity
- Weighted for comfortable use at different angles

Noise / Vibration Information

Sound Pressure Level: 70.5dB (A)

Sound Power Level: 83.5dB (A)

Wear Eye and Ear Protection

Vibration: The typical weighted acceleration does not exceed 2.5m/s²

Specification

Weight (inc Batts) – 2.5Kg

Volt – 13.2v

Batteries – 2x3.0Ah NiMH

Max force – 1,400Nm

Max pressure – 8.5 Bar

Charging time – 60min

Applications

All sealing applications such as:

Sealing partition joints

Sealing concrete joints

Sealing window frames

Product Range - RCG600 Caulking Gun

| Part No. | Description | Order Qty |
|----------|----------------------|-----------|
| RCG600 | Ramset™ Caulking Gun | 1 |



SD4000 Drywall ScrewDriver



Noise / Vibration Information

Sound pressure level: 77dB (A)
 Work place emission value: 73dB (A)
 Sound power level: 88dB (A)
 Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 2.5m/s²

Applications



- Plasterboard or fibre-cement board onto metal stud and track
- Metal support onto steel

Extremely lightweight and compact

The universal drywall screw gun.

Product Advantages

- Adjustable depth stop
- Interchangeable bit holder
- Lock-on button for continuous operation
- Forward / reverse selector
- Equipped with electronic speed adjustment for precision work
- 6 metre electrical cable and can be used from floor to ceiling without the need of an extension cable

Specification

| | |
|--------------------------|--------------|
| Machine weight | 1.1kg |
| Voltage | 240V |
| Power input | 500W |
| Rotation speed - unload | 0 - 4,000rpm |
| Torque at rated load | 5Nm |
| Tool holder | 1 / 4" |
| Clamping collar diameter | 43mm |
| Cable length | 6m |

Product Range - SD4000 Drywall Screw Gun

| Part No. | Description | Carry Case |
|----------|-----------------------|------------|
| SD4000 | 4000 rpm screw driver | 1 |

Accessories

| Part No. | Description | Order Qty |
|-------------|-------------------------------------|-----------|
| HDPH02025 | #2PH x 25mm Driver Bit | 10 |
| HDPH02050 | #2PH x 50mm Driver Bit | 10 |
| HDPH02100 | #2PH x 100mm Driver Bit | 10 |
| HDPH02150 | #2PH x 150mm Driver Bit | 10 |
| HDPH02045DE | #2PH x 45mm Double Ended Driver Bit | 10 |
| HDPH02065DE | #2PH x 45mm Double Ended Driver Bit | 10 |
| HDHX05032 | Internal Hex Drive 5mm x 32 | 10 |
| HDUN04065 | Magnetic Nutsetter 1/4" x 65mm | 10 |
| HDUN05050 | Magnetic Nutsetter 5/16" x 45mm | 10 |
| HDUN05065 | Magnetic Nutsetter 5/16" x 65mm | 10 |
| HDUN06065 | Magnetic Nutsetter 3/8" x 65mm | 10 |

CSD4000 Cordless Drywall Screw Gun



Function

Robust and ergonomic cordless tool to make the Drywaller faster and more efficient on site

Product Advantages

- Ergonomically designed for great balance into partition and ceiling application angles
- Depth gauge for accurate and consistent finishes
- Electronic switch for maximum feel and control
- Reverse function
- Long battery life (over 900 35mm screws per cycle)
- SPEED55 collated screw adaptor for decreased down time – can improve productivity by 50%

Noise / Vibration Information

Sound Pressure Level: 74dB (A)

Sound Power Level: 85dB (A)

Wear Eye and Ear Protection

Vibration: The typical weighted acceleration does not exceed 2.5m/s²

Applications

- Plasterboard or fibre cement board onto metal stud and track



Specification

Speed – 4000rpm

Weight – 1.8Kg

Batteries – 2x2Ah or 2x3Ah (NiCd)

Voltage – 13.2v

Product Range - CSD 4000 Cordless Drywall Screw Gun

| Part No. | Description | Order Qty |
|-------------|---------------------------------------|-----------|
| CSD4000A40C | CSD4000 2x2.0Ah Batteries | 1 |
| CSD4000A60C | CSD4000 2x3.0Ah Batteries | 1 |
| SPEED55 | Collated Screw Adaptor | 1 |
| SPEED55P2 | Spare extended P2 bit to suit SPEED55 | 1 |

CSD14 Cordless Drill Driver



Powerful two speed

A standard duty drill / driver for small to medium drilling and screwdriving tasks.

Product Advantages

- 10mm keyless chuck
- Forward and reverse rotation
- 15 adjustable torque positions and one drill setting
- Variable speed trigger with soft start up

Noise / Vibration Information

Sound pressure level: 70dB (A)

Sound power level: 85dB (A)

Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 2.5m/s²

Applications



- Screw driving
- Drilling
- Installation of DynaBolt™
- Installation of WallMates™
- Installation of FireFix® Clips

Specification

| | |
|---------------------------|---------------|
| Machine weight | 1.6kg |
| Voltage | 14.4V |
| Battery weight | 0.5kg |
| Battery type | NiCd |
| Capacity | 1.5Ah / 2.0Ah |
| Charge time | 60 minutes |
| Rotation speed 1st gear | 0 - 400rpm |
| Rotation speed 2nd gear | 0 - 1,200rpm |
| Torque adjustment range | 1 - 8Nm |
| Possible drill diameters: | |
| Steel | 11mm |
| Wood | 25mm |
| Chuck clamping range | 1 - 10mm |
| Drill spindle thread | 3 / 8" |
| Max screw diameter | 7mm |
| Temperature control | NTC |

Product Range - CSD14 Cordless Drill Driver

| Part No. | Tool | Battery 1.5Ah BP1415 | Battery 1.5Ah BP1420 | Standard Charger UBC7214S2 | Carry Case |
|-----------|------|----------------------------|----------------------------|----------------------------------|---------------|
| CSD14A15C | 1 | 1 | | 1 | 1 |
| CSD14A20C | 1 | | 1 | 1 | 1 |
| CSD14A30C | 1 | 2 | | 1 | 1 |
| CSD14A40C | 1 | | 2 | 1 | 1 |

DD514 Cordless Drill Driver



Powerful two speed

A heavy duty drill / driver for small to medium drilling and screwdriving tasks.

Product Advantages

- Advanced ergonomic design
- 13mm keyless chuck
- Forward and reverse rotation
- 15 adjustable torque positions and 1 drill setting
- Variable speed trigger

Noise / Vibration Information

Sound pressure level: 70dB (A)

Sound power level: 85dB (A)

Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 2.5m/s²

Applications



- Screw driving
- Drilling
- Installation of DynaBolt™
- Installation of WallMates™

Specification

| | |
|---------------------------|---------------|
| Machine weight | 2.4kg |
| Voltage | 14.4V |
| Battery weight | 0.8kg |
| Battery type | NiCd |
| Capacity | 2.0Ah / 2.4Ah |
| Charge time | 60 minutes |
| Rotation speed 1st gear | 0 - 400rpm |
| Rotation speed 2nd gear | 0 - 1,400rpm |
| Torque adjustment range | 2 - 10Nm |
| Possible drill diameters: | |
| Steel | 13mm |
| Wood | 35mm |
| Chuck clamping range | 1.5 - 13mm |
| Drill spindle thread | 1 / 2" |
| Max screw diameter | 10mm |
| Temperature control | NTC |

Product Range - DD514 Drill Driver

| Part No. | Tool | Battery 2.0Ah | Battery 2.4Ah | Standard Charger | Carry Case |
|-----------|------|---------------|---------------|------------------|------------|
| | | BP1420 | BP1424 | UBC7214S2 | |
| DD514A40C | 1 | 2 | | 1 | 1 |
| DD514A48C | 1 | | 2 | 1 | 1 |
| DD514A20C | 1 | 1 | | 1 | 1 |
| DD514A24C | 1 | | 1 | 1 | 1 |

Accessories

| Part No. | Description | Order Qty |
|-------------|---------------------------------|-----------|
| DSUS04DE | 1/8" Double Ended Twist Drill | 10 |
| DSNS30DE | No.30 Double Ended Twist Drill | 10 |
| DSNS20DE | No.20 Double Ended Twist Drill | 10 |
| DSNS11DE | No.11 Double Ended Twist Drill | 10 |
| B2608572201 | 10mm (3/8") Keyless 3 Jaw Chuck | 1 |
| B2608572202 | 13mm (1/2") Keyless 3 Jaw Chuck | 1 |

DD528 Cordless Electro Pneumatic Hammer 24V



Ideal for working at height or on worksites that are without electricity

A compact yet powerful cordless 24V Electro Pneumatic Hammer for complete autonomy and high power. Great for drilling overhead.

Product Advantages

- Equipped with a variable speed trigger, forward and reverse selector for all types of drilling, screwing and unscrewing operations
- Selection of two batteries (1.7Ah or 3.0Ah)
- Long life batteries - 1,000 charge cycles expected
- Charges quickly in 23 or 40 minutes
- Safety clutch
- Rotary only / Rotary Hammer selector built into casing

Noise / Vibration Information

Sound pressure level: 91dB (A)
Sound power level: 104dB (A)
Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 8m/s²

Applications



- Drilling for light anchoring and screwdriving

Specification

| | |
|----------------------------|-------------------------|
| Machine weight | 3.6kg / 3.9kg |
| Voltage | 24V |
| Battery weight | 1.2kg / 1.5kg |
| Battery type | NiCd / NiMH |
| Capacity | 1.7Ah / 3.0Ah |
| Charge time | 23 minutes / 40 minutes |
| Power input | 360W |
| Rotation speed loaded | 0 - 1,000rpm |
| Impact rate | 0 - 4,400bpm |
| Impact force (Max) | 2J |
| Possible drill diameters: | |
| Concrete | 20mm |
| Steel | 10mm |
| Wood | 20mm |
| Optimal drilling diameter: | |
| Concrete | 4 - 12mm |

Product Range - DD528 Cordless Electro Pneumatic Hammer 24V

| Part No. | Tool | Battery 1.7Ah DD528BP17 | Battery 3.0Ah DD528BP30 | Rapid Charger DD528CH | Carry Case |
|-----------|------|----------------------------|----------------------------|--------------------------|------------|
| DD528A34C | 1 | 2 | | 1 | 1 |
| DD528A60C | 1 | | 2 | 1 | 1 |

Accessories

| Part No. | Description | Order Qty |
|-------------|---------------------------------|-----------|
| B2608572105 | 13mm (1/2") Keyless 3 Jaw Chuck | 1 |
| DAR3DH | Chuck Adaptor | 1 |
| DD528CH | Spare Quick Charger | 1 |
| DD528BP17 | 1.7 Ah Battery | 1 |
| DD528BP30 | 3.0 Ah Battery | 1 |
| DD528BA | Belt Adaptor | 1 |

CIW280 Cordless Impact Wrench



Noise / Vibration Information

Sound Pressure Level: 96dB (A)
 Sound Power Level: 107dB (A)
 Wear Eye and Ear Protection

Vibration: The typical weighted acceleration does not exceed 8m/s²

Applications

- Concrete Screw Setting
- Bolt Tightening

Function

High torque / Low weight tool for high power performance

Product Advantages

- Electronic variable speed switch
- 1/2" Square Drive
- Well balanced, compact, lightweight,
- Soft grip handle for comfort
- Powerful 18v
- 3 Position LED for increased visibility
- Externally removed carbon brushes
- Large air vents for temperature control
- No 'Kick Back' for user safety

Specification

Machine Weight (with batteries) - 2.2Kg
 Drive – 1/2"
 Batteries – 2 x 2.6Ah NiMH
 Max Torque – 220Nm
 No Load Speed - 2800rpm
 Impact Rate - 3200bpm
 Charge time – 60 mins

Product Range - CIW280 Cordless Impact Wrench

| Part No. | Description | Order Qty |
|----------|----------------------------|-----------|
| CIW280 | 18v Cordless Impact Wrench | 1 |
| CIW280BH | Bit Holder for CIW280 | 1 |
| CIW280CH | Spare Charger | 1 |
| CIW280BP | Spare Battery 2.6Ah NiMH | 1 |



DD526 Lightweight Electro Pneumatic Hammer



Function

Light, robust, electro pneumatic hammer for general purpose use

Product Advantages

- Powerful 800w motor
- Rotating brush plate for increased power
- Same power forward and reverse
- Depth gauge
- Positive locking drill bits
- Accepts R3 drill bits
- 3J impact force!

Noise / Vibration Information

Sound pressure level: 91dB (A)
 Sound power level: 102dB (A)
 Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 13m/s²

Applications

- Drilling for light anchoring and screwdriving

Specification

Power input – 800w
 load speed (1/min) – 0-900
 Impact rate (1/min) – 0-4400
 Drill Capacity in Concrete – 26mm
 Optimum Drilling size in concrete – 8-16mm
 Soft Grip – Yes
 Weight – 2.7Kg

Product Range - DD526 Lightweight Electro Pneumatic Hammer

| Part No. | Description | Order Qty |
|----------|------------------------------|-----------|
| DD526 | 2kg Electro Pneumatic Hammer | 1 |

DD527 Lightweight Combi Hammer



Function

This robust, innovative and reliable tool offers the high grade performance of the DD526 while extending the applications of the tool through the ability to carry out light chiselling works

Product Advantages

- Powerful 800w motor
- Chiselling function for increased applications & versatility
- Rotating brush plate for increased power
- Same power forward and reverse
- Depth gauge
- Positive locking drill bits
- Accepts R3 drill bits
- 3J impact force!

Noise / Vibration Information

Sound Pressure Level: 91dB (A)
Sound Power Level: 102dB (A)
Wear Eye and Ear Protection

Vibration: The typical weighted acceleration does not exceed 13m/s² (Drill) or 11m/s² (Chisel)

Applications

- Drilling for light anchoring and screwdriving
- Light picking and chiselling

Specification

Power input – 800w
load speed (1/min) – 0-900
Impact rate (1/min) – 0-4400
Drill Capacity in Concrete – 26mm
Optimum Drilling size in concrete – 8-16mm
Soft Grip – Yes
Weight – 2.7Kg

Product Range - DD527 Lightweight Electro Pneumatic Hammer

| Part No. | Description | Order Qty |
|----------|------------------|-----------|
| DD527 | 2kg Combi Hammer | 1 |

DD532 Electro Pneumatic Hammer



Compact and powerful

High volume drilling in concrete.

Product Advantages

- Anti vibration handle, adjustable through 360°
- Ergonomic "D" shaped handle - well balanced
- Specially treated drive key for longer tool-holder life
- Lubricant reservoir in tool-holder
- Vibration-damping handle
- Rotary only / Rotary Hammer selector built into casing

Noise / Vibration Information

Sound pressure level: 87dB (A)
 Sound power level: 100dB (A)
 Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 10m/s²

Applications



- Volume drilling in concrete

Specification

| | |
|----------------------------|--------------|
| Machine weight | 3.3kg |
| Voltage | 240V |
| Power input | 720W |
| Power output | 400W |
| Rotation speed loaded | 0 - 800rpm |
| Impact rate | 0 - 4,000bpm |
| Impact force (max) | 3.3J |
| Possible drill diameters: | |
| Concrete | 26mm |
| Masonry using core bit | 80mm |
| Steel | 13mm |
| Wood | 30mm |
| Optimal drilling diameter: | |
| Concrete | 10 - 18mm |

DD532 Electro Pneumatic Hammer

| Part No. | Description | Carry Case |
|---|-------------------|------------|
| DD532 | 3kg Rotary Hammer | 1 |
| Kit includes: DD532 in shock proof case, lubricating oil and instruction manual | | |

Accessories

| Part No. | Description | Order Qty |
|-------------|----------------------------------|-----------|
| B2608572105 | 13mm (1/2") Keyless 3 Jaw Chuck | 1 |
| DAR3DH | Chuck Adaptor 1/2" x 20mm Thread | 1 |

Refer to Pages 60 and 62 for the full range of R3™ PLUS carbide and chisels

DD543 Electro Pneumatic Combi Hammer



Noise / Vibration Information

Sound pressure level: 89dB (A)
 Sound power level: 102dB (A)
 Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 13m/s²

Applications



- Volume drilling in concrete
- Light core drilling
- Light picking and chiselling

Versatile and ergonomic

An electro pneumatic combi hammer for volume drilling in concrete and light picking and chiselling.

Product Advantages

- Can be used with various tools for many types of jobs (wood, steel, concrete, picking, chiselling, etc.) with multi-position tool holder
- Variable speed to adapt the rotation speed and impact force to the material and job
- Chisel can be adjusted to different position for easier work
- Safety clutch
- Rotary and Hammer / Hammer only selector built into casing

Specification

| | |
|----------------------------|------------------|
| Machine weight | 3.9kg |
| Voltage | 240V |
| Power input | 750W |
| Power output | 440W |
| Rotation speed loaded | 280 - 650rpm |
| Impact rate | 1,650 - 3,900bpm |
| Impact force (Max) | 3.5J |
| Possible drill diameters: | |
| Concrete | 26mm |
| Masonry using core bit | 80mm |
| Steel | 13mm |
| Wood | 30mm |
| Optimal drilling diameter: | |
| Concrete | 14 - 24mm |
| Chisel positions | 36 |
| Lubrication | Grease |
| Cable length | 4m |

DD543 Electro Pneumatic Combi Hammer

| Part No. | Description | Carry Case |
|----------|-------------------|------------|
| DD543 | 4kg Rotary Hammer | 1 |

Kit includes: DD543 in shock proof case, lubricating oil and instruction manual

Accessories

| Part No. | Description | Order Qty |
|-------------|----------------------------------|-----------|
| DAKCH | Quick Fit 13mm Keyless Chuck | 1 |
| DAR3DH | Chuck Adaptor 1/2" x 20mm Thread | 1 |
| B2608572105 | 13mm (1/2") Keyless 3 Jaw Chuck | 1 |

Refer to Pages 60 and 62 for the full range of R3" PLUS carbide and chisels

DD565 Electro Pneumatic Combi Hammer



Robust and ergonomic

For volume drilling in concrete and light picking and chiselling.

Product Advantages

- Robust design and oil lubrication, guarantees the longest tool lifetime, even under the toughest working conditions
- Ergonomically designed and well balanced, little down-force pressure necessary
- High removal rates, excellent performance / weight ratio
- Depth gauge with quick adjustment by front handle
- Safety clutch system allows continuous drilling even when the drill bit jams in the toughest materials
- Improved impact mechanism excellent transfer of energy to the drill bit or chisel
- Horizontal and vertical drilling level gauge for accurate drilling
- Vibration reduction system for comfort while working
- Variable drilling and chisel speed switch
- Power LED indicator
- Service LED indicator shows 8 hours before tool requires service
- Rotary and Hammer / Hammer only selector built into casing

Noise / Vibration Information

Sound pressure level: 98dB (A)

Sound power level: 109dB (A)

Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 8.8m/s²

Specification

Applications



- Volume drilling in concrete
- Picking and chiselling
- Core drilling

| | |
|----------------------------|-------------|
| Machine weight | 5.9kg |
| Voltage | 240V |
| Power input | 1,100W |
| Power output | 650W |
| Rotation speed - unload | 0 - 600rpm |
| Rotation speed loaded | 0 - 400rpm |
| Impact rate | 0 - 3000bpm |
| Impact force (Max) | 10J |
| Tool holder | R3™ Max |
| Drill diameters: | 14 - 45mm |
| Optimum drilling diameter: | |
| Concrete | 18 - 38mm |
| Core Cutting | 40 - 125mm |
| Chisel positions | 16 |
| Lubrication | Oil |
| Cable length | 4m |

DD565 Electro Pneumatic Combi Hammer

| Part No. | Description | Carry Case |
|----------|-------------------|------------|
| DD565 | 5kg Rotary Hammer | 1 |

Kit includes: DD565 in shock proof case, lubricating oil and instruction manual

Refer to Pages 61 and 62 for the full range of R3™ Max carbide and chisels and core bits

DD576 Electro Pneumatic Combi Hammer



Noise / Vibration Information

Sound pressure level: 97dB (A)
 Sound power level: 110dB (A)
 Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 9m/s²

Applications



- Large diameter volume drilling into concrete
- Chiselling and demolition
- Core drilling

Powerful and robust

An electro pneumatic combi hammer for large diameter drilling in concrete, picking and chiselling.

Product Advantages

- Powerful and robust hammer for large diameter holes or concrete breaking
- Tool holder adjustment - 8 positions
- Safety clutch
- Optimum ergonomics
- Rotary and Hammer / Hammer only selector built into casing

Specification

| | |
|----------------------------|--------------|
| Machine weight | 7.9kg |
| Voltage | 240V |
| Power input | 1,350W |
| Rotation speed loaded | 0 - 280rpm |
| Impact rate | 0 - 2,800bpm |
| Impact force (max) | 2-13/15J |
| Tool holder | R3™ Max |
| Drill diameters | 14 - 45mm |
| Optimum drilling diameter: | |
| Concrete | 24 - 38mm |
| Chisel positions | 8 |
| Lubrication | Oil |
| Cable length | 4m |
| Core cutting | 40 - 125mm |

DD576 Electro Pneumatic Combi Hammer

| Part No. | Description | Carry Case |
|----------|-------------------|------------|
| DD576 | 7kg Rotary Hammer | 1 |

Kit includes: DD576 in shock proof case, lubricating oil and instruction manual

Refer to Pages 61 and 62 for the full range of R3™ Max carbide and chisels and core bits

DD665 Electro Pneumatic Demolition Hammer



Lightweight and ergonomic

An electro pneumatic demolition hammer for light demolition work.

Product Advantages

- Robust design and oil lubrication guarantees the longest tool lifetime, even under the toughest working conditions
- Ergonomically designed - well balanced, little down-force pressure necessary, high removal rates, excellent performance / weight ratio
- 16 different chisel positions
- Improved impact mechanism, excellent transfer of energy to the chisel
- Vibration Reduction System for comfort while working
- Electronic switch with locking function and variable chiselling speeds
- Power LED indicator
- Service LED indicator shows 8 hours before tool requires service
- D - Handle especially designed for chiselling actions

Noise / Vibration Information

Sound pressure level: 98dB (A)
Sound power level: 109dB (A)

Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 8.8m/s²

Specification

| | |
|--------------------|--------------|
| Machine weight | 5.9kg |
| Voltage | 240V |
| Power input | 1,100W |
| Impact rate | 0 - 3,200bpm |
| Impact force (max) | 11J |
| Tool holder | R3™ Max |
| Chisel positions | 16 |
| Lubrication | Oil |
| Cable length | 4m |

Applications



- Light demolition work

DD665 Electro Pneumatic Demolition Hammer

| Part no. | Description | Carry Case |
|---|-----------------------|------------|
| DD665 | 5kg Demolition Hammer | 1 |
| Kit includes: DD665 in shock proof case, lubricating oil and instruction manual | | |
| Refer to Page 62 for the full range of R3™ Max chisels | | |

DD610 Electro Pneumatic Demolition Hammer



Noise / Vibration Information

Noise level does not exceed 108dB (A)
Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 13m/s²

Applications



- Heavy demolition work

High performance

An electro pneumatic demolition hammer for heavy demolition work.

Product Advantages

- High-performance and power make this demolition hammer one of the highest performing hammers of its kind on the market
- Impact force adjustable through 6 levels to match base material and application
- Multi position tool holder
- Fixed position power switch

Specification

| | |
|--------------------|----------------|
| Machine weight | 9.9kg |
| Voltage | 240V |
| Power input | 1,500W |
| Power output | 850W |
| Impact rate | 950 - 1,890bpm |
| Impact force (Max) | 6 - 23J |
| Tool holder | R3™ Max |
| Chisel positions | 12 |
| Cable length | 4m |

Product Range - DD610 Electro Pneumatic Demolition Hammer

| Part No. | Description | Carry Case |
|---|------------------------|------------|
| DD610 | 10kg Demolition Hammer | 1 |
| Kit includes: DD610 in shock proof case, lubricating oil and instruction manual | | |
| Refer to Page 62 for the full range of R3™ Max chisels | | |

Carbide Drill Bits

| Part no. | Diameter | Work Length | Total Length | Use with DD524/528 | Use with DD521 | Use with DD525 | Use with DD532 | Use with DD543 |
|-------------|----------|-------------|--------------|--------------------|----------------|----------------|----------------|----------------|
| DDR306050X3 | 1/4" | 50 | 110 | ✓ | ✓ | ✓ | ○ | ○ |
| DDR306100X3 | 1/4" | 100 | 160 | ✓ | ✓ | ✓ | ○ | ○ |
| DDR306150X3 | 1/2" | 125 | 185 | ○ | ○ | ✓ | ✓ | ✓ |
| DDR312125X7 | 1/4" | 150 | 210 | ✓ | ✓ | ✓ | ○ | ○ |
| DDR305050 | 5 | 50 | 110 | ✓ | ○ | ○ | ○ | ○ |
| DDR305100 | 5 | 100 | 160 | ✓ | ○ | ○ | ○ | ○ |
| DDR305065X5 | 5.5 | 65 | 125 | ✓ | ○ | ○ | ○ | ○ |
| DDR305125X5 | 5.5 | 125 | 185 | ✓ | ○ | ○ | ○ | ○ |
| DDR306050 | 6 | 50 | 110 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR306100 | 6 | 100 | 160 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR306150 | 6 | 150 | 210 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR307065 | 7 | 65 | 125 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR308065 | 8 | 65 | 125 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR308150 | 8 | 150 | 210 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR310100 | 10 | 100 | 160 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR310180 | 10 | 180 | 240 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR310400 | 10 | 400 | 460 | ✓ | ✓ | ✓ | ✓ | ○ |
| DDR312125 | 12 | 125 | 185 | ○ | ○ | ✓ | ✓ | ○ |
| DDR312250 | 12 | 250 | 310 | ○ | ○ | ✓ | ✓ | ○ |
| DDR312400 | 12 | 400 | 460 | ○ | ○ | ✓ | ✓ | ○ |
| DDR313200 | 13 | 215 | 275 | ○ | ○ | ○ | ✓ | ○ |
| DDR314200 | 14 | 200 | 260 | ○ | ○ | ○ | ✓ | ✓ |
| DDR315150 | 15 | 150 | 210 | ○ | ○ | ○ | ✓ | ✓ |
| DDR316125 | 16 | 125 | 185 | ○ | ○ | ○ | ✓ | ✓ |
| DDR316200 | 16 | 200 | 260 | ○ | ○ | ○ | ✓ | ✓ |
| DDR316400 | 16 | 400 | 460 | ○ | ○ | ○ | ✓ | ✓ |

✓ Optimum Use ○ Outside Optimum

R3™ PLUS patented carbide drill bits are the perfect match for your DynaDrill™. Together, they form a powerful concrete drilling system to get the job done faster and better.

Extremely hard, tough tungsten carbide head design and 4 spiral flutes for faster waste removal and drilling speed. The new R3™ tool holder and drive design is engineered for the high torque loads of our current DynaDrill™ range and provide a far longer bit life.

R3™ PLUS Carbide and Chisels fit all SDS Plus machines and previous Ramset™ model 63 Series tools. R3™ PLUS Drill Bits are also available with 4 cutter heads for greater performance and drilling accuracy.

The patented profile of R3™ PLUS carbide into the R3™ tool holder has proven to be an outstanding development. Premature wear or distortion on carbide has been overcome with this design.

Quattro (4 cutter) Carbide Drill Bits

| Part no. | Diameter | Work Length | Total Length | Use with DD524/528 | Use with DD521 | Use with DD525 | Use with DD532 | Use with DD543 |
|-----------|----------|-------------|--------------|--------------------|----------------|----------------|----------------|----------------|
| DQR316200 | 16 | 200 | 250 | ○ | ○ | ○ | ✓ | ✓ |
| DQR316400 | 16 | 400 | 450 | ○ | ○ | ○ | ✓ | ✓ |
| DQR318200 | 18 | 200 | 250 | ○ | ○ | ○ | ✓ | ✓ |
| DQR318400 | 18 | 400 | 450 | ○ | ○ | ○ | ✓ | ✓ |
| DQR319250 | 19 | 250 | 300 | ○ | ○ | ○ | ○ | ✓ |
| DQR320200 | 20 | 200 | 250 | ○ | ○ | ○ | ○ | ✓ |
| DQR320400 | 20 | 400 | 450 | ○ | ○ | ○ | ○ | ✓ |
| DQR322200 | 22 | 200 | 250 | ✗ | ✗ | ✗ | ○ | ✓ |
| DQR322400 | 22 | 400 | 450 | ✗ | ✗ | ✗ | ○ | ✓ |
| DQR324200 | 24 | 200 | 250 | ✗ | ✗ | ✗ | ○ | ✓ |
| DQR324400 | 24 | 400 | 450 | ✗ | ✗ | ✗ | ○ | ✗ |
| DQR325400 | 25 | 400 | 450 | ✗ | ✗ | ✗ | ○ | ○ |
| DQR326200 | 26 | 200 | 250 | ✗ | ✗ | ✗ | ○ | ○ |
| DQR326400 | 26 | 400 | 450 | ✗ | ✗ | ✗ | ○ | ○ |

✓ Optimum Use ○ Outside Optimum ✗ Not recommended



Carbide Drill Bits

| Part no. | Diameter | Work Length | Total Length | Use with DD565 | Use with DD576 |
|-----------|----------|-------------|--------------|----------------|----------------|
| DDSM12200 | 12 | 200 | 340 | ○ | ○ |
| DDSM12400 | 12 | 400 | 540 | ○ | ○ |
| DDSM14200 | 14 | 200 | 340 | ✓ | ○ |
| DDSM14400 | 14 | 400 | 540 | ✓ | ○ |
| DYSM16200 | 16 | 200 | 340 | ✓ | ○ |
| DYSM16400 | 16 | 400 | 540 | ✓ | ○ |
| DYSM18200 | 18 | 200 | 340 | ✓ | ○ |
| DYSM18400 | 18 | 400 | 540 | ✓ | ○ |
| DYSM20200 | 20 | 200 | 320 | ✓ | ○ |
| DYSM20400 | 20 | 400 | 520 | ✓ | ○ |
| DYSM22400 | 22 | 400 | 520 | ✓ | ○ |
| DYSM24200 | 24 | 200 | 320 | ✓ | ○ |
| DYSM24400 | 24 | 400 | 520 | ✓ | ✓ |
| DYSM25400 | 25 | 400 | 520 | ✓ | ✓ |
| DYSM25800 | 25 | 800 | 920 | ✓ | ✓ |
| DYSM26400 | 26 | 400 | 520 | ✓ | ✓ |
| DYSM28450 | 28 | 450 | 570 | ✓ | ✓ |
| DYSM30450 | 30 | 450 | 570 | ✓ | ✓ |
| DYSM32450 | 32 | 450 | 570 | ✓ | ✓ |
| DYSM35450 | 35 | 450 | 570 | ✓ | ✓ |
| DYSM38450 | 38 | 450 | 570 | ✓ | ✓ |
| DYSM40450 | 40 | 450 | 570 | ✓ | ✓ |

✓ Optimum Use ○ Outside Optimum

R3™ MAX Carbide Drill Bits and Chisels are tough, long-life and designed to also fit all SDS Max machines.

R3™ MAX Drill Bits have precision engineered cutting and cleaning flutes for efficient and trouble free drilling providing a long life solution.

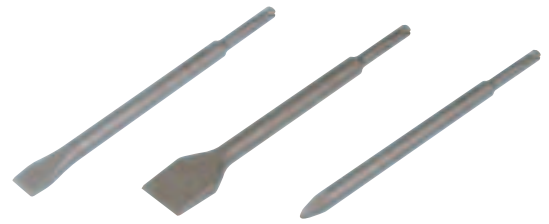
Larger sizes have 4 tungsten carbide cutter heads for efficient heavy duty drilling and long life operation.



ACCESSORIES - CARBIDE / CHISELS

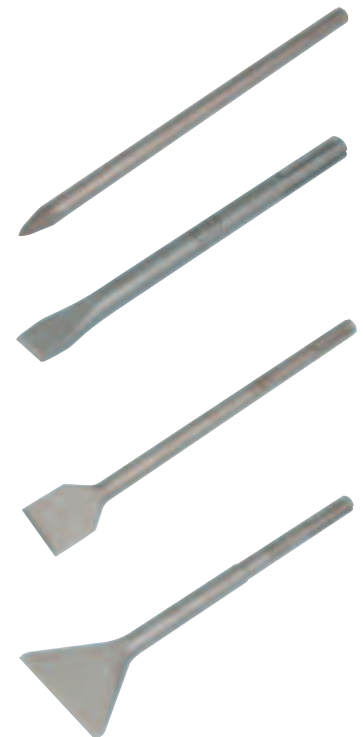
R3™ Plus Chisels

| Part no. | Type | Width | Total Length | Use with DD525 | Use with DD543 |
|------------------|-------|-------|--------------|----------------|----------------|
| DHRPCS | Point | - | 250 | ✓ | ✓ |
| DHRFCS | Flat | 20 | 250 | ✓ | ✓ |
| DHRSCP040 | Spade | 40 | 250 | ✓ | ✓ |
| ✓ Optimum Use | | | | | |



R3™ Max Chisels

| Part no. | Type | Width | Total Length | Use with DD565 | Use with DD576 | Use with DD665 | Use with DD610 |
|------------------|-------|-------|--------------|----------------|----------------|----------------|----------------|
| DHSMPCS | Point | - | 280 | ✓ | ✓ | ✓ | ✓ |
| DHSMPCM | Point | - | 400 | ✓ | ✓ | ✓ | ✓ |
| DHSMPCCL | Point | - | 600 | ✓ | ✓ | ✓ | ✓ |
| DHSMFCS | Flat | 25 | 280 | ✓ | ✓ | ✓ | ✓ |
| DHSMFCM | Flat | 25 | 400 | ✓ | ✓ | ✓ | ✓ |
| DHSMFCL | Flat | 25 | 600 | ✓ | ✓ | ✓ | ✓ |
| DHSMSC080 | Spade | 80 | 300 | ✓ | ✓ | ✓ | ✓ |
| DHSMSC115 | Spade | 115 | 300 | ✓ | ✓ | ✓ | ✓ |
| DHSMSC050 | Spade | 50 | 400 | ✓ | ✓ | ✓ | ✓ |
| ✓ Optimum Use | | | | | | | |



Core Bit System

| Product | Part no. |
|------------------|------------------------|
| DDHR12150 | 12mm Pilot bit |
| DCHR050 | 50mm Core bit |
| DCHR065 | 65mm Core bit |
| DCHR080 | 80mm Core bit |
| DCHR100 | 100mm Core bit |
| DAHR25280 | 250mm Extension |
| DAR3HR | R3™ Plus Drive Adaptor |
| DASMHR | R3™ Max Drive Adaptor |

For large diameter concrete hole drilling.
From 50mm to 100mm hole diameter.
Suits both R3™ PLUS and R3™ Max drive systems.



DynaDrill™ Specifications

| | Concrete Drilling | | | | | Concrete Demolition | | | Cordless Drilling | |
|---|-------------------|----------|----------|----------|--------|---------------------|--------|----------|-------------------|-------------|
| | DD521 | DD525 | DD532 | DD543 | DD565 | DD576 | DD665 | DD610 | DD528 | DD514 |
| Rated Input (watt) | 680 | 680 | 720 | 750 | 1100 | 1350 | 1100 | 1500 | 350 | 680 |
| Rated Output (watt) | 360 | 360 | 400 | 440 | 650 | | 650 | 850 | 270 | |
| Rated Speed (rpm) | 0-870 | 0-870 | 0-800 | 0-650 | 0-400 | 145-280 | | | 0-1000 | 0-500 |
| Impact Rate (bpm) | 0-4850 | 0-4850 | 0-4800 | 0-3900 | 0-3000 | 0-2800 | 0-3200 | 900-1890 | 0-4000 | 0-21,000 |
| Impact Energy (joules) | 2.4 | 2.4 | 3.3 | 0-0.35 | 10 | 2-13/15 | 11 | 23 | 1.4 | 1.8 |
| Power Source | 240V | 240V | 240V | 240V | 240V | 240V | 240V | 240V | 24V | 14V |
| Weight (kg) | 2.4 | 2.4 | 3.3 | 3.9 | 5.9 | 7.9 | 5.9 | 9.9 | Battery 3.5 | Battery 1.8 |
| Tool Holder/Drive | R3 Plus | R3 Plus | R3 Plus | R3 Plus | R3 Max | R3 Max | R3 Max | R3 Max | R3 Plus | 680 |
| Drilling Range (mm) | | | | | | | | | | |
| Concrete | 5-20 | 5-20 | 5-26 | 5-26 | 14-45 | 14-45 | - | - | 5-16 | 5-12 |
| Optimum Drilling | 6-12 | 8-12 | 10-18 | 12-20 | 18-38 | 24-40 | - | - | 6-10 | 5-8 |
| Drilling Range (mm) | | | | | | | | | | |
| Steel | up to 13 | up to 13 | up to 13 | up to 13 | ✗ | ✗ | - | - | up to 12 | 13 |
| Timber | 30 | 30 | 30 | 30 | ✗ | ✗ | - | - | 25 | 32 |
| Core Cutting | | | 40-80 | 40-100 | 40-125 | 40-125 | - | - | | |
| Chiselling | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ |
| Chiselling Positions | | 36 | | 36 | 16 | 16 | 16 | 12 | | |
| Screwdriving | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ |
| Safety Clutch | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Double Insulated | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Sealed Lub. System | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Variable Speed | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reversing Switch | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ |
| Impact Resistant | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Body Mouldings | | | | | | | | | | |
| Adjustable Side Handle | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Service Light Indicator | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| Electronic Monitoring | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Electro Pneumatic impact mechanism | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Impact |
| Quick Fit Chuck | Optional | Optional | ✗ | Optional | | | | | Optional | |
| Drill Chuck with Adaptor | | | | | | | | | Optional | |
| Tool Box ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| ✓ Optimum Use ✗ Not recommended | | | | | | | | | | |

RM160 Diamond Motor



Function

A comfortable yet powerful diamond core drill with superb power to weight ratio

Product Advantages

- Compact & ergonomic
- Optimal power / speed balance for maximum core drill life
- Integrated spirit levels for efficient and precise machine adjustment
- Double shank: 1/2" and 1 1/4"
- LED indicator for overpressure

Noise / Vibration Information

Sound Pressure Level: 85dB (A)
Sound Power Level: 90dB (A)
Wear Eye and Ear Protection

Applications

- Chemical & mechanical anchoring
- Starter bars
- Balustrade anchoring
- Air conditioning & heating pipes

Specification

| | | | |
|--------------|-----------------|----------|-----------|
| Power | 2000w | | |
| Connector | 1/2" and 1 1/4" | | |
| Weight | 6.7Kg | | |
| Motor Speeds | Speed 1 | Speed 2 | Speed 3 |
| Load | 0-660rpm | 0-155rpm | 0-3300rpm |
| Diameter | 65-131mm | 35-60mm | 10-30mm |
| Rig | CDBR130 | | |
| Cable Length | 5m | | |

Product Range - RM160 Diamond Motor

| Part No. | Description | Order Qty |
|--------------------|----------------------------------|-----------|
| RM160 | Ramset™ Diamond Motor | 1 |
| Accessories | | |
| 172770 | Copper Rings | 5 |
| 622020 | Core bit extension 1/2 x 300mm | 1 |
| 622070 | Core bit extension 1-1/4 x 400mm | 1 |
| 172710 | Portable water supply unit | 1 |

Refer to Page 71 for the full range of core bits



RM200 - Motor



Function

The RM200 is the ideal motor for smaller diamond coring jobs or where convenience is required. Hand held or rig mountable, it has a three speed motor with progressive start and a powerful 2000w motor.

Product Advantages

- Thermal protector device to protect motor
- Ergonomic front handle
- Hand held applications up to 80mm

Noise / Vibration Information

Noise level: 90dB (A)

Applications



- Chemical and mechanical anchoring
- Starter bars
- Column anchoring
- Balustrade anchoring
- Air conditioning and heating pipes

Specification

| | | | |
|-----------------------|-----------------------|-----------|-----------|
| Model | RM200 | | |
| Power | 2000W | | |
| Max drilling capacity | Hand Held | 80mm | |
| | Rig Mounted | 131mm | |
| Motor Speeds | Speed 1 | Speed 2 | Speed 3 |
| Load | 0-660rpm | 0-1550rpm | 0-3300rpm |
| Diameter | 65-131mm | 35-60mm | 10-30mm |
| Weight | 5.9Kg | | |
| Connection | 1 1/4" unc / 1/2" BSP | | |
| Cable length | 5m | | |
| Insulation | Class II | | |
| Rig compatibility | CDBR130 | | |

Product Range - RM200 - Motor

| Part No. | Description | Order Qty |
|----------|---------------|-----------|
| 623004 | Diamond Motor | 1 |

Accessories

| | | |
|--------|----------------------------------|---|
| 172770 | Copper Rings | 5 |
| 622020 | Core bit extension 1/2 x 300mm | 1 |
| 622070 | Core bit extension 1-1/4 x 400mm | 1 |
| 172710 | Portable water supply unit | 1 |

Refer to Page 71 for the full range of core bits

CDBR130 - Rig



Function

A lightweight rig that is capable of very accurate coring from 0° to 90°. The Trolley System is fitted with rollers to ensure smooth even work in the worst conditions.

Product Advantages

- Increased accuracy and drilling
- Increased life of core bits
- More stable and controlled drilling

Noise / Vibration Information

Noise level with motor: 90dB (A)

Specification

| | |
|---------------------|----------------------------|
| Height | 885mm |
| Length | 310mm |
| Width | 210mm |
| Weight | 8.7Kg |
| Max drill depth | 677mm |
| Max core diameter | 131mm |
| Operational tilt | 0 - 90° |
| Motor mounting | 60mm connection neck mount |
| Suitable for motors | RM200 |

Applications



- Chemical and mechanical anchoring
- Starter bars
- Column anchoring
- Balustrade anchoring
- Air conditioning and heating pipes

Product Range - CDBR130 - Rig

| Part No. | Description | Order Qty |
|--------------------|--------------------------------------|-----------|
| 624006 | Rig to suit RM200 (623004) and RM160 | 1 |
| Accessories | | |
| 620827 | Vacuum Pump | 1 |
| 622220 | Quick fixing bolts | 1 |
| 627600 | Vacuum Plate | 1 |
| 627610 | Vacuum Plate Seal | 1 |

RM350 - Motor



Noise / Vibration Information

Noise level: 90dB (A)

Applications



- Chemical and mechanical anchoring
- Floor penetrations and waste pipes
- Heating and cooling pipes
- Fire and plumbing services

Function

The RM350 is designed for ease of use on the CDBR350 drilling rig. The combination is ideally suited to heavy duty work in the demanding conditions found on construction sites. With a 3000w motor, it is powerful enough to tackle even the biggest jobs.

Product Advantages

- 3000w provides optimum torque and drilling speed
- Thermal protection
- Long life

Specification

| | | | |
|-----------------------|-------------|----------|---------|
| Model | RM350 | | |
| Power | 3000W | | |
| Max drilling capacity | Rig Mounted | 350mm | |
| Motor Speeds | Speed 1 | Speed 2 | Speed 3 |
| Load | 230rpm | 500rpm | 1030rpm |
| Diameter | 150-350mm | 90-150mm | 50-90mm |
| Weight | 13Kg | | |
| Connection | UNC 1 1/4" | | |
| Cable length | 3M | | |
| Insulation | Class II | | |
| Rig compatibility | CDBR350 | | |

Product Range - RM350 - Motor

| Part No. | Description | Order Qty |
|--------------------|----------------------------|-----------|
| 623003 | RM350 Motor | 1 |
| Accessories | | |
| 622070 | Extension 1-1/4 x 400mm | 1 |
| 172770 | Copper Rings | 5 |
| 172710 | Portable Water Supply Unit | 1 |

Refer to Page 71 for the full range of core bits

CDBR350 - Rig



Function

A heavy duty rig that is capable of very accurate coring up to 45° degrees. The trolley system is fitted with rollers to ensure smooth operation even in the worst conditions. A simple low maintenance rig built strong enough to take a heavy work load.

Product Advantages

- Accurate easy drilling of large diameters
- Large base for stable drilling in all sizes

Noise / Vibration Information

Noise level with motor: 90dB (A)

Applications



- Chemical and mechanical anchoring
- Floor penetrations and waste pipes
- Heating and cooling pipes
- Fire and plumbing services

Specification

| | |
|---------------------|----------------|
| Height | 1095mm |
| Length | 433mm |
| Width | 333mm |
| Weight | 17.2Kg |
| Max drill Depth | 652mm |
| Max core Diameter | 350mm |
| Operational tilt | 0 - 45° |
| Suitable for motors | RM200 RM350 |

Product Range - CDBR350 - Rig

| Part No. | Description | Order Qty |
|--------------------|-----------------------|-----------|
| 624008 | Rig to suit RM350 | 1 |
| Accessories | | |
| 620827 | Vacuum Pump | 1 |
| 624540 / 624541 | Vacuum Plate | 1 |
| 624550 / 624551 | Seal for Vacuum Plate | 1 |
| 622200 | Quick Connector Bolts | 1 |

Vacuum System



Product Advantages

Drill anywhere anchor free

*for use in retrofit where anchors cannot be set

Water Collection



Product Advantages

Mess free concrete coring, water collection kit ensures that there is no mess, portable water unit allows you to work anywhere.

50 Litre vacuum for greater capacity

Vacuum Cleaner - Part No. 620900

Portable water supply unit - Part No. 172710

Vacuum Plate



Specification

For attachment to CDBR130 Drill Rig

Dimensions: 420 x 210 x 25mm

Vacuum Plate - Part No. 627600

Vacuum Plate Seal - Part No. 627610

For attachment to CDBR350 Drill Rig

Quick fit bolt

4 levelling screws

Can be used in combination with vacuum plate

Vacuum Plate - Part No. 624540 / 624541

Vacuum Plate Seal - Part No. 624550 / 624551

Vacuum Pump



Specification

For use with CDBR130 and CDBR350 Rigs

0.48kw, 20V, 4.5amp, 50-60hz

10 litre vacuum tank capacity

Maximum pressure 8 bar

Produced volume 5.9m³/hour

Dimensions 340 x 360 x 620mm

Part No. 620827

ACCESSORIES - DIAMOND DRILLING

Quick Release Bolts



Specification

M12 for fixing into drop-in masonry anchors to secure drill rigs.

Part No. 622220

Water Collector



Specification

External diameter of 192mm

Maximum diameter core drill - 130mm

Can be used in combination with vacuum plate on CDBR130 Rig

Part No. 623432

Membranes for water collector

Part No. 627820

Seal for water collector

Part No. 627840

Copper Rings and Sharpening Plate



Specification

Set of 5 rings to suit 1 1/4" drive core drills to prevent seizure

Part No. 172770

Sharpening plate

Part No. 622200

Extension for Core Drills



Specification

1/2" x 300mm - Part No. 622020

1 1/4" x 400mm - Part No. 622070

Wet and Dry Vacuum R1600-50L



Noise / Vibration Information

Noise level: 70dB (A)

Applications



- 50 Litre capacity
- Automatic vibrator ("AC" every 2 minutes) to keep filters clean
- Polyester filters
- All accessories included can be dust extractor or workshop vacuum

Function

Industrial quality vacuum unit for powerful dust and water extraction. The ideal companion for the Ramset™ Diamond program.

Product Advantages

- Polyester filters provide longer life
- Dust free coring, grinding and cutting
- No dust bag required
- All accessories included
- Suits all trades

Specification

| | |
|-----------------------------|-------------------|
| Voltage | 240V |
| Container volume | 50 Litres |
| Power | 1600W |
| Max airflow | 64 L/s |
| Max water column depression | 259 mbar |
| Electric cable | 8m |
| Suction hose | 5m / Ø35mm |
| Weight (without hose) | 11.50kg |
| Size | 400 x 400 x 560mm |

Product Range - Wet and Dry Vacuum R1600-50L

| Part No. | Description | Order Qty |
|--------------------|-----------------------------|-----------|
| 620900 | 50 Litre Vacuum Wet and Dry | 1 |
| Accessories | | |
| 644004 | 5m antistatic hose | 1 |
| 644006 | 2 sets polyester filters | 1 |

Diamond Core Drill Bits - Wet Drill Bits



Diamond Tips

Ensure the correct speed is selected for the hole size and the hardness of the material being drilled. General rule:

- Smaller holes higher speed
- Larger holes lower speed.

Ensure the motor has adequate power.

Keep constant pressure on the core, do not force it, allow the diamonds to cut at their own pace.

For best results ensure an adequate flow of water.

Drilling Accessories

A comprehensive range of Diamond cores available ex stock from your nearest Ramset™ supplier. These have been selected to meet most commonly encountered conditions.

*Other cores are available on request to meet more demanding conditions. Please consult your Ramset™ representative for advice.

Specification

Diamond Core Drill Bits - Wet Drill Bits

1/2" BSP Thread.

1 1/4" UNC

Diameter (mm) x 300mm*

Diameter (mm) x 400mm*

620080 - 14mm x 300mm

621460 - 66mm x 400mm

620120 - 16mm x 300mm

621500 - 76mm x 400mm

620140 - 18mm x 300mm

621540 - 91mm x 400mm

620160 - 20mm x 300mm

621560 - 101mm x 400mm

620210 - 24mm x 300mm

621600 - 116mm x 400mm

620240 - 26mm x 300mm

621620 - 121mm x 400mm

620300 - 32mm x 300mm

621640 - 126mm x 400mm

620320 - 35mm x 300mm

621660 - 131mm x 400mm

620340 - 40mm x 300mm

621680 - 141mm x 400mm

620360 - 45mm x 300mm

621700 - 151mm x 400mm

620402 - 52mm x 300mm

621720 - 161mm x 400mm

621740 - 171mm x 400mm

621760 - 181mm x 400mm

621800 - 200mm x 400mm

621810 - 220mm x 400mm

621820 - 230mm x 400mm

621830 - 250mm x 400mm

621840 - 256mm x 400mm

621850 - 260mm x 400mm

621860 - 276mm x 400mm

621870 - 280mm x 400mm

621880 - 300mm x 400mm

621890 - 350mm x 400mm

RW150E Wall Chaser



Function

Fast dust free concrete chasing.

Product Advantages

- Quick blade fixing and removal
- Variable width and depth of the cut
- Safe ergonomic design
- Soft start
- Secure concrete face contact for straight cut
- Close to edge operation

Noise / Vibration Information

Sound pressure level: 93dB (A)

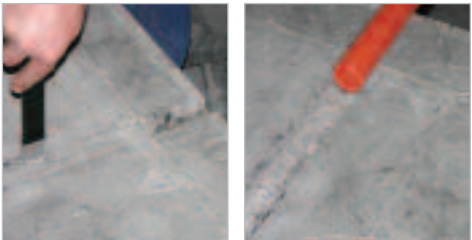
Sound intensity level: 106dB (A)

Applications



1. Set up

2. Cutting



3. Chipping

4. End Results

- Concrete Chasing - Ideal for concealment of conduit or wires adjustable from 2.6mm to 46mm wide and 50mm deep

Specification

| | |
|-----------------------------------|--------------|
| Rated input | 2,200 Watt |
| Weight | 7.5kg |
| Disc diameter | 150mm |
| Groove depth | 0-50mm |
| Groove width | 2.6 - 46.5mm |
| Concrete blades (610002) included | |

Product Range - RW150E

| Part No. | Description | Order Qty |
|--------------------|------------------|-----------|
| RW150E | Concrete Chaser | 1 |
| Accessories | | |
| 610120 | Universal blades | 2 |
| 610002 | Concrete blades | 2 |
| 610220 | Abrasive blades | 2 |

SG125 Surface Grinder



Noise / Vibration Information

Noise level: 86dB (A)
Switching level: 99dB (A)

Accessories



Function

Fast dust free concrete grinding, ideal for small concrete grinding jobs.

Product Advantages

- 1500w motor
- Max. 10,000rpm
- Ergonomic side handles

Specification

| | |
|-----------------|------------|
| Power | 1,500 Watt |
| Speed (no load) | 10,000rpm |
| Spindle | M14 |
| Weight | 4kg |
| Cable | 3m |

Cup wheels are available in soft bond for concrete (hard) substrates and hard bond for abrasive (soft) materials to ensure longevity.

Single row is for maximum material removal.

Double row is used for universal grinding.

Turbo cup wheels are designed for light grinding and finishing.

The new Superturbo is designed for finishing applications such as formwork seams and graffiti removal.

Product Range - SG125

| Part No. | Description | Order Qty |
|--------------------|--|-----------|
| SG125 | Concrete Surface Grinder | 1 |
| Accessories | | |
| 610492 | Cup wheel - 125mm Turbo Grinding (Concrete) | 1 |
| 610497 | Cup wheel - 125mm Turbo Grinding (Abrasive) | 1 |
| 610477 | Cup wheel - 125mm Single Row Grinding (Concrete) | 1 |
| 610487 | Cup wheel - 125mm Single Row Grinding (Abrasive) | 1 |
| 610472 | Cup wheel - 125mm Double Row Grinding (Concrete) | 1 |
| 610482 | Cup wheel - 125mm Double Row Grinding (Abrasive) | 1 |
| 610494 | Cup wheel - 125mm Superturbo Grinding (Concrete) | 1 |
| 610499 | Cup wheel - 125mm Superturbo Grinding (Abrasive) | 1 |

RG230E 230mm Angle Grinder



Noise / Vibration Information

Noise level does not exceed 102dB (A)
Wear ear and eye protection

Vibration: The typical weighted acceleration does not exceed 3m/s²

Accessories



Unique anti-lock flanges prevents jams and reduces down time.



Dust extraction hood 610980

Function

With 2400w of power and progressive start the RG230E is perfectly suited to larger cutting and grinding jobs.

Product Advantages

- Soft start for comfort and safety
- Ergonomically designed handles to ensure solid vibration absorbing comfort
- Dust extraction system available for grinding applications
- Anti lock flanges for cutting

Specification

| | |
|------------------------|-------------------|
| Power | 2400 Watt |
| Motor speed | 6500 |
| Saw Diameter | 230mm |
| Cup Grinding wheel Max | 180mm |
| Weight | 6.55Kg |
| Cable length | 5m |
| Size | 495 x 104 x 133mm |

Product Range - RG230E

| Part No. | Description | Order Qty |
|--------------------|--|-----------|
| RG230E | 230mm Angle Grinder | 1 |
| Accessories | | |
| 610999 | Dust Hood Cutting | 1 |
| 610980 | Dust Hood Grinding | 1 |
| 610493 | Cup wheels - 180mm (Suits 230mm Grinder) Concrete (Hard) Turbo | 1 |
| 610468 | Cup wheels - 180mm (Suits 230mm Grinder) Abrasive (Soft) Turbo | 1 |
| GR230FS | Anti-lock flanges | 1 |
| 620900 | Dust extraction vacuum unit | 1 |
| GA230MCU7 | Cut Off Wheel to suit Masonry | 1 |
| GA230SCU7 | Cut Off Wheel to suit Steel | 1 |

Diamond Blade Guide



Universal Blades are suited to most general cutting applications and have a large operating range for multi surface use.

Turbo Titan+ is the long lasting choice into hard concrete. Abrasive type A is the choice for use into abrasive material such as brick and block.

Silver turbo is designed for floor tiles.

Silver ceramic is for cutting wall tiles.

Blades

Part No. Diameter (mm)

TITAN+ / Universal

610401 - 115mm

610411 - 125mm

610431 - 180mm

610441 - 230mm

610453 - 300mm

610462 - 350mm

TITAN+ / Concrete

610000 - 115mm

610001 - 125mm

610002 - 150mm

610003 - 180mm

610004 - 230mm

610005 - 300mm

610006 - 350mm

610007 - 400mm

TYPE A / Abrasive

610200 - 115mm

610210 - 125mm

610220 - 150mm

610240 - 230mm

610250 - 300mm

610260 - 350mm

Part No. Diameter (mm)

UNIVERSAL SILVER

610046 - 125mm

610045 - 230mm

TURBO SILVER

610082 - 125mm

610084 - 230mm

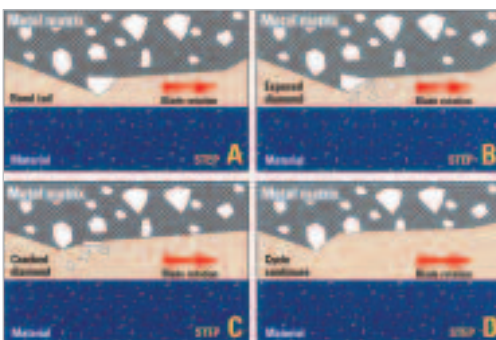
CERAMIC SILVER

610065 - 115mm

610061 - 125mm

610064 - 230mm

Material removal process



Factors affecting the cutting characteristics of a diamond saw blade

Cutting conditions

- Cutting depth
- Feed rate
- Cutting pressure
- Quality of coolant

Machine

- Power drawn
- RPM
- Condition of the machine
- Coolant supply

Material

- Density
- Abrasivity
- Nature of aggregates
- Size of aggregates
- Type of reinforcement
- Type of foundation

RG125C 125mm Angle Grinder



Function

Multi purpose grinder for smaller cutting and grinding applications

Product Advantages

- Gear head can be rotated in 90° steps
- Cut Off Carbon Brushes for prolonged life
- Ergonomic & comfortable
- Armoured Coil
- 1 screw device opening
- Safety switch
- Spindle lock for easy disc change

Noise / Vibration Information

Sound Pressure Level: 89dB (A)
Sound Power Level: 102dB (A)
Wear Eye and Ear Protection

Vibration: The typical weighted acceleration does not exceed 5m/s²

Applications

- Channelling into concrete & tile
- De-burring, paint & rust removal
- Cutting thin metal & tile
- General surface preparation, polishing & grinding

Specification

| | |
|------------------|--|
| Power | 850w |
| Speed | 11,000rpm |
| Disc Diameter | 125mm |
| Spindle Thread | M10 |
| Spindle Lock | Yes |
| Weight | 1.4Kg |
| Cord Length | 2.5m |
| Motor Protection | Stator Coated, armature partially coated |

Product Range - RG125C 125mm Angle Grinder

| Part No. | Description | Order Qty |
|----------|--------------------------|-----------|
| RG125C | 125mm (5") Angle Grinder | 1 |

RL150 Self Levelling Laser



Function

The RL150 is a fully automatic laser, with self levelling in both vertical and horizontal applications; and is fully controllable by remote. The laser is in automatic mode once it is turned on, it will pause for a few seconds to level itself then begin rotating, once level, modes can be changed to suit application. If the laser is moved it will pause while it levels itself again then continue rotating.

Product Advantages

- Standard motorised wall mount, saving time and effort in adjusting the laser
- High accuracy means a better finish for the job and reduced time spent on site
- Greater levelling capacity saving time on set up
- Laser target helps operator use laser in high ambient light
- Remote control, allowing you to adjust the laser from where you work
- Light weight

Applications

- Levelling
- Vertical alignment
- Plumbing and squaring
- Suspended ceilings
- Technical floorings
- A number of outdoor alignment tasks.

Also Available

RL150B without motorised wall mount

Specification

| | |
|--------------------|--|
| Recommended Use | 300m diameter |
| Levelling Accuracy | +/- 0.010% |
| | +/- 10mm at 100m |
| Levelling Range | 10% (5.7) |
| Rotation Speed | 0-60-150-300-450-600rpm |
| Scanning Angle | From 2 to 36 |
| Laser Diode | 635nm < 2mW |
| Power | 2 D Size alkaline batteries |
| Battery Life | 160 hours with alkaline batteries |
| Remote Detection | 180° |
| Weight | 1.5Kg |
| Size | 210 x 175 x 135mm |
| Environmental | Weatherproof (rain and dust proof – IP64) |

Product Range - R150E Self Levelling Laser

| Part No. | Description | Order Qty |
|--------------------|----------------------------------|-----------|
| RL150 | Rotating Laser Level 150m | 1 |
| Accessories | | |
| RLTP | Ramset™ Laser Tripod | 1 |
| RL5MS | Ramset™ Laser 5m measuring staff | 1 |
| RL3MS | Ramset™ Laser 3m measuring staff | 1 |

RL5W 5 Way Laser



Function

- Multi direction 5 way set out laser
- Self levelling within 3.0 degrees
- Accuracy 2mm over 10m
- 30m range
- 24h run time
- Magnetic dampening system
- Light weight 0.74kg
- Powered by 3AA batteries

Product Advantages

- 5 ways gives user more measurements without repositioning the laser, and is easily re-calibrated.
- The large working range allows worker freedom without having to move the laser to new positions constantly.
- High accuracy means a better finish for the job and reduced time spent on site.
- Strong magnetic base plate allows laser to be set up where ever it is needed quickly and accurately
- Laser target helps operator use laser in high ambient light
- Easy to operate means less chance of inaccurate readings

Specification

| | |
|----------------|------------------|
| No. of Beams | 5 Way |
| Accuracy | 2mm @ 10m |
| Range | 30m |
| Self Levelling | 4° |
| Powered by | 3 x AA batteries |

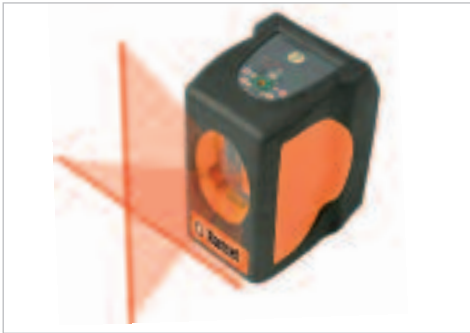
Applications

- Plumb Transfer
- Levelling Tasks
- Squaring

Product Range - RL5W 5 Way Laser

| Part No. | Description | Order Qty |
|--------------------|-----------------------------|-----------|
| RL5W | Multi Direction 5 Way Laser | 1 |
| Accessories | | |
| RLTP | Ramset™ Laser Tripod | 1 |

RLCB Cross Beam Laser



Function

The Ramset™ Cross Beam Laser enables workers to get a quick and accurate reference wherever they are working. It gives an immediate line in both horizontal and vertical directions.

Product Description

Applications

- Ceiling and Partitioning
- Pipe and Conduit
- Lighting installation
- Windows and Doors
- Floor and Wall Tiles

- Multi function line laser
- Self levelling within 7°
- Accuracy 3mm over 10m
- 25m indoor range (ambient light dependant)
- 25h run time single beam. 12.5h both beams
- Out of level sensor
- Light weight 340g
- Powered by 3AA Batteries



Specification

| | |
|---------------------|---|
| Accuracy | < 3mm @10m |
| Working Range | Max. 30m (Depending on Ambient Light) 40m (Optional Receiver) |
| Levelling Type | Magnetic Damped |
| Levelling Range | ± 7° |
| Laser Class | 2a. High Powered Ultra Bright |
| Batteries | 3 x AA |
| Out of Level Sensor | Yes (Blinks) |
| Warranty | 1 Year |
| Weight | 340 grams |
| Mounting | Inbuilt Female Camera Thread 1/4" x 20 |

Product Range - RLCB Cross Beam Laser

| Part No. | Description | Order Qty |
|----------|--------------------------|-----------|
| RLCB | Ramset™ Cross Beam Laser | 1 |
| RLTP | Ramset™ Laser Tripod | 1 |

RLM50 Laser Measurer



Function

The RLM50 is a fast and accurate way to measure out lengths, areas and volumes on site jobs across the trades. - Saving Time, Saving Money

Product Advantages

- Lightweight
- Robust
- Accurate
- Time Saving
- Measuring pin head for accurate measurements into difficult positions
- Soft grip
- Automatic switch off (5min tool, 30s laser)
- IP54 dust and water resistance

Applications

- All measuring tasks up to 50m



Specification

Weight – 180g including batteries
 Power supply – 4xLR03 (AAA) batteries
 Dimensions – 100x58x32mm
 Measuring range – 0.05-50m
 Measuring accuracy (Min) - $\pm 1.5\text{mm}$
 Measurement time – 0.5secs min – 4.0 secs Max
 Laser diode – 635nm<1mW
 Laser class - 2
 Laser diameter – 6mm @ 10m / 30mm @ 50mm

Product Range - RLM50 Laser Measurer

| Part No. | Description | Order Qty |
|----------|------------------------|-----------|
| RLM50 | Ramset™ Laser Measurer | 1 |

Notes

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ANCHOR TECHNOLOGY





Anchor Technology Selector Guide

| Page | Anchor Fixing | Concrete | Solid Stone | Solid Block | Solid Brick | Hollow Block | Hollow Slab | Hollow Brick | Plasterboard | Aerated Concrete |
|------|-------------------------------|----------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|------------------|
| 92 | ChemSet™ Maxima Spin Capsules | ● | ● | ● | ● | | | | | |
| 94 | ChemSet™ Hammer Capsules | ● | ● | ● | ● | | | | | |
| 96 | ChemSet™ REO502™ | ● | ● | ● | ● | | | | | |
| 98 | ChemSet™ 801 | ● | ● | ● | ● | | | | | |
| 100 | ChemSet™ 101 | ● | ● | ● | ● | ● | ● | ● | | |
| 102 | UltraFix™ Plus | ● | ● | ● | ● | ● | ● | ● | | |
| 108 | SpaTec™ Plus Safety Anchors | ● | ● | | | | | | | |
| 110 | TruBolt™ All Steel Anchors | ● | ● | | | | | | | |
| 114 | Boa™ Coil Expansion Anchors | ● | ● | | | | | | | |
| 116 | AnkaScrew™ Screw-in Anchors | ● | ● | ● | ● | ● | ● | ● | | |
| 118 | DynaBolt™ Sleeve Anchors | ● | ● | ● | ● | ● | ● | ● | | |
| 124 | Loxin™ Shield Anchors | ● | ● | ● | ● | ○ | ○ | ○ | | |
| 126 | DynaSet™ Drop-in Anchors | ● | ● | | | | | | | |
| 130 | RamPlug™ Anchors | ● | ● | ● | ● | ● | ● | ● | | ● |
| 132 | EasyDrive™ Nylon Anchors | ● | ● | ● | ● | ● | ● | ● | | ● |



Recommended



Recommended with care



Site tests should be made

Anchor Technology Selector Guide

| | Page | Anchor Fixing | Concrete | Solid Stone | Solid Block | Solid Brick | Hollow Block | Hollow Slab | Hollow Brick | Plasterboard | Aerated Concrete |
|--|------|---------------------------------|-----------------------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|------------------|
| | 134 | ShureDrive™ Anchors | ● | ● | ● | ● | ● | ● | ● | | |
| | 136 | Hollow Wall Anchors | | | | | ● | ● | ● | ● | |
| | 138 | WallMate™ Anchors | | | | | | | | ● | ● |
| | 139 | ToggleMate™ Anchors | | | | | | | | ● | ● |
| | 139 | Utility Hook | | | | | | | | ● | ● |
| | 139 | RamToggle™ Cavity Fastener | | | | | | | | ● | ● |
| | 140 | RediDrive™ Hammer-In Anchors | ● | ● | | | | | | | ● |
| | 141 | Nylon Anchors | ● | | | ● | ● | | | | |
| | 142 | Plastic Plugs | ● | ● | ● | ● | ○ | ○ | ○ | | ● |
| | 143 | Plastic Spaghetti | ● | ● | ● | ● | ○ | ○ | ○ | | ● |
| | 144 | TruFast™ Suspension Anchor | ● | | | | | | | | |
| | 144 | Catenary Wire Eye | ● | | | | | | | | |
| | 145 | Vertical Flange Clip (○) | (Site tests should be made) | | | | | | | | |
| | 146 | DynaClip™ Spring Steel Clip (○) | (Site tests should be made) | | | | | | | | |
| | 147 | InsulFast™ Drill Anchor | ● | ● | ● | ● | | | | | |

Different Types of Anchors

Torque Setting Expansion Anchors

Expansion is achieved by the application of torque to a bolt or nut which causes a cone to be drawn into a sleeve. Anchorage is verified with this torque.

Displacement Setting Expansion Anchor

Expansion is achieved by hammering a component (normally a cone) which is captive in the body of the anchor. Anchorage is verified by the travel of the expansion component.

Rotation Setting Anchor

Anchorage is achieved by screwing the anchor into the concrete and creating mechanical interlock. Allows reduced spacings and edge distances than for expansion anchors.

Chemical Anchors

The anchor consists of a fixing element and a synthetic-based adhesive. The two components are placed in the hole and after curing the adhesive creates dual adhesion, one between the fixing element and the adhesive and the other between the adhesive and base material. The adhesive is supplied either in a glass capsule or an injection cartridge. Chemical anchors generate lower stresses in the base material so they can be used closer to edges and closer together.

Friction Based Light Duty Anchor

Performance is achieved by the introduction of an expansion component which is screwed or hammered into the anchor body. The anchor body is thus firmly blocked against the sides of the drilled hole.

Deformation Based Light Duty Anchor

The anchor body is drawn against the interior of the base material by deformation.

Anchor Systems - Principles of Operation

Hollow or Low Strength Base Materials

We have stated indicative loads for performance in certain types of masonry, both solid and hollow, while indicating various types. Given the vast selection of different types of bricks and blocks that are encountered on site, it is recommended that adequate site tests be carried out to establish a realistic recommended load for:

Solid concrete block
Solid brick
Hollow concrete block
Hollow brick
Dry wall
Aerated concrete and gypsum block

Load Directions - Tensile ($0^\circ \leq \alpha \leq 15^\circ$)



Oblique 30° ($15^\circ < \alpha \leq 37.5^\circ$)



Oblique 45° ($37.5 < \alpha \leq 52.5^\circ$)



Oblique 60° ($52.5^\circ < \alpha \leq 67.5^\circ$)

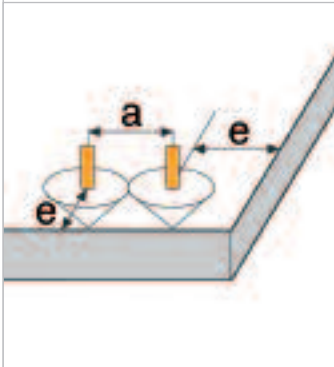


Shear ($67.5^\circ < \alpha \leq 90^\circ$)



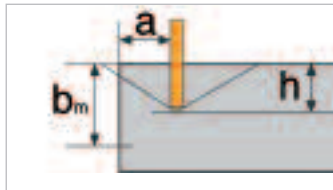
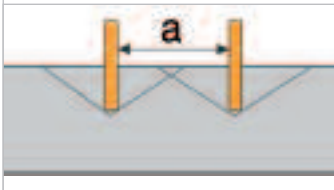
Anchor Spacing

Taking into account the stress values created by the expansion anchors and the loads they are designed to support, the following points must be considered when establishing the performance of each individual product (recommended load):



- The minimum thickness of the base material (b_m) (determined by anchor effective depth h_{ef})
- The minimum distance between anchors (c)
- The distance of anchors from edges of the slab or structure (e)

The coincidence of stress cones of adjacent anchors in concrete reduces their tensile performance.



Anchor Effective Depth: h

Each anchor has a minimum anchorage depth which guarantees its minimum rated load (recommended load). Certain anchor types can be embedded deeper with a resulting increase in performance. For further information consult the Ramset™ Specifiers Resource Book.

Reduced Distance Between Anchors

The distance between anchors and from edges and corners can also be reduced in some cases. Such reduction will affect the recommended load of the anchor and one or more reduction coefficients will have to be applied.

Load Classification

Static Loads

A load is static when it's constant and stationary.

Vibrating Load

A variable cyclic load of relatively low amplitude and high frequency (motor vibration for example).

Dynamic Load

A variable load in time with a relatively medium or high amplitude with or without negative loading (wind for example).

Shock Load

Isolated high load applied in a very short period of time.

These four load types can be occasional or permanent. An occasional load is applied during a limited period of time and several times. A permanent load is applied continuously.

Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

ChemSet™ Maxima™ Spin Capsules



ChemSet™ Maxima™ Spin Capsules

A simple to install, high strength anchor suitable for use in corrosive and damp environments when used in conjunction with galvanised or stainless steel studs. Rapid curing, extra heavy duty anchoring of threaded studs into solid concrete and stone and is suitable for overhead anchoring applications.

Product Advantages

- On smaller projects more convenient than using a cartridge system
- Exact measure of resin required for each application
- Either end can be inserted into the hole
- Suitable for reduced anchor spacing and edge distances
- Ideal for installation in wet or damp conditions
- Vibration resistant
- Suitable for cold temperature installation

Substrates

- Concrete

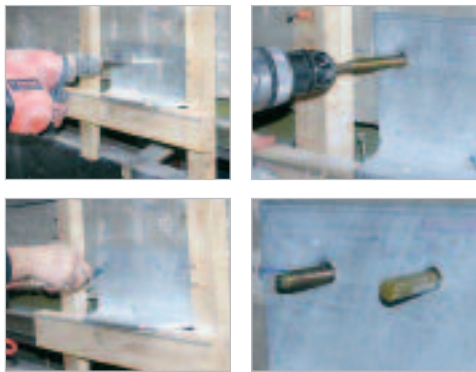
Specification

ChemSet™ Maxima™ Spin Capsule is a heavy duty, peroxide initiated capsule anchor.

Setting characteristics at 20°C:

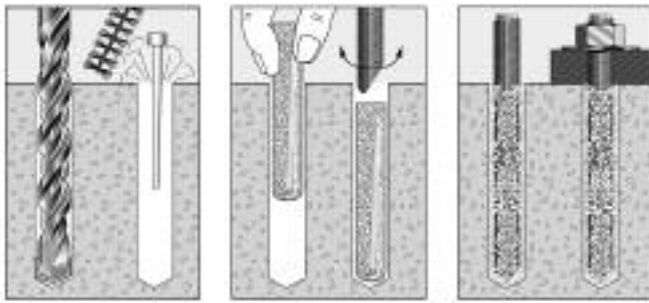
- Working time: 15 minutes
- Full cure time: 20 minutes

Applications



- Fixing to concrete
- Curtain walling support
- Heavy duty signs
- Brick support

Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Insert capsule.
4. Drive down stud until the depth mark meets the concrete surface.
5. After cure time, tighten bolt with torque wrench to recommended torque.

Product Range - Maxima Spin Capsules

| Part No. | Nom Stud Diameter | Capsule Length (mm) | Capsule Diameter Ø (mm) | Hole Depth (mm) | Order Qty |
|----------|-------------------|---------------------|-------------------------|-----------------|-----------|
| CHEM08 | M8 | 80 | 9.5 | 80 | 10 |
| CHEM10 | M10 | 90 | 11 | 90 | 10 |
| CHEM12 | M12 | 95 | 13 | 110 | 10 |
| CHEM16 | M16 | 95 | 17 | 125 | 10 |
| CHEM20 | M20 | 115 | 21.5 | 150 | 6 |
| CHEM24 | M24 | 115 | 21.5 | 160 | 6 |

ChemSet™ Maxima™ Spin Capsules - Indicative Working Loads in 32MPa Concrete with ChemSet™ Anchor Studs

| Thread Ø | Hole Ø (mm) | Embed Depth (mm) | Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load* (kN) | Max Tension Load* (kN) |
|----------|-------------|------------------|-------------|--------------------|-------------------------|----------------------|------------------------|
| M8 | 10 | 80 | 10 | 25 | 25 | 4.5 | 6.5 |
| M10 | 12 | 90 | 20 | 30 | 30 | 7.1 | 10.3 |
| M12 | 14 | 110 | 40 | 35 | 35 | 10.5 | 15.3 |
| M16 | 18 | 125 | 95 | 50 | 50 | 19.9 | 22.3 |
| M20 | 24 | 150 | 180 | 60 | 60 | 30.0 | 35.7 |
| M24 | 26 | 160 | 315 | 75 | 75 | 42.2 | 41.3 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

ChemSet™ Hammer Capsules



ChemSet™ Hammer Capsules

ChemSet™ Hammer Capsules are a chemical anchor based on epoxy acrylate. No measuring, no mixing, no mess.

Product Advantages

- On smaller projects more convenient than using a cartridge system
- Styrene free methacrylate resin
- Low viscosity, epoxy acrylate adhesive
- Suitable for reduced anchor spacing and edge distances
- Ideal for installation in wet or damp conditions
- Vibration resistant

Substrates

- Concrete

Specification

ChemSet™ Hammer Capsule is a medium duty, peroxide initiated capsule anchor.

Setting characteristics at 20°C:

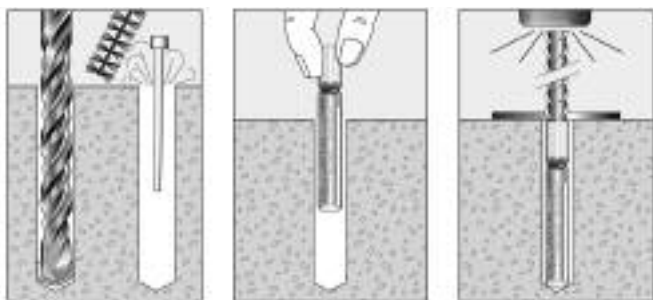
- Working time: 30 minutes
- Full cure time: 1 hour

Applications



- Starter bars
- Structural fixings
- Re-bar installation
- Fixing to corrosive environments
- Machinery anchoring
- Must **NOT** be used overhead

Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Insert capsule.
4. Drive down stud until the depth mark meets the concrete surface.
5. After cure time, tighten bolt with torque wrench to recommended torque.

Product Range - ChemSet™ Hammer Capsules

| Part No. | Diameter | Capsule Length | Hole Diameter | Hole Depth | Order Qty |
|----------|----------|----------------|---------------|------------|-----------|
| HAC10 | M10 | 90mm | 11mm | 90mm | 10 |
| HAC12 | M12 | 110mm | 13mm | 110mm | 10 |
| HAC16 | M16 | 125mm | 17mm | 125mm | 10 |

ChemSet™ Hammer Capsules - Indicative Working Loads in 32MPa Concrete with ChemSet™ Anchor Studs

| Thread Ø | Hole Ø (mm) | Embed Depth (mm) | Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load* (kN) | Max Tension Load* (kN) |
|-------------|----------------|------------------------|----------------|--------------------------|-------------------------------|----------------------------|------------------------------|
| M10 | 12 | 90 | 20 | 30 | 30 | 7.1 | 8.9 |
| M12 | 14 | 110 | 40 | 35 | 35 | 10.5 | 12.6 |
| M16 | 18 | 125 | 95 | 50 | 50 | 19.9 | 18.5 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

ChemSet™ REO502™ Anchoring Adhesive



ChemSet™ REO502™ Anchoring Adhesive

A heavy duty chemical anchor for Grade 500N Rebar and threaded studs. Works in dry, damp, wet and flooded holes with a fast cure time.

Product Advantages

- Works in damp, flooded and underwater applications
- Minimum shrinkage - can be used in oversized holes and diamond cored holes
- Styrene free
- Rapid cure epoxy resin
- Vibration resistant
- Reduces rebar/anchor spacing and edge distances
- Approved for use with potable water

Substrates

- Concrete
- Stone
- Solid brick
- Solid block

Specification

ChemSet™ REO502™ is a long working time, fast cure, heavy duty, aliphatic amine/epoxy injection anchor.

Setting characteristics at 20°C:

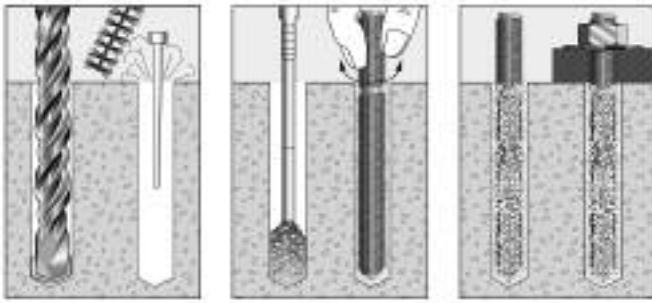
- Working time: 15 minutes
- Full cure time: 3 hours

Applications



- Rebar installation
- Installation of process and ancillary equipment
- Silo tanks
- Pumps and pipework
- Fixing steel framed structures
- Fixing machinery (resistant to vibration)
- Protective barriers and safety rails

Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Assemble nozzle onto cartridge. Extrude until an even mix is achieved and then inject into hole.
4. Insert rebar or stud by hand to full depth, using slow rotating movement.
5. Allow ChemSet™ REO502™ to cure for specified period, prior to applying recommended torque.

Product Range - ChemSet™ REO502™ Anchoring Adhesive

| Part No. | Description | Order Qty |
|-----------------------------------|-------------------------------|-----------|
| Pack Sizes and Accessories | | |
| REO502J | Cartridge (750mL) + 1 Nozzle | 1 |
| CUA | ChemSet™ Universal Applicator | 1 |
| ISNE | Mixing Nozzles with Extension | 5 |
| HCP | Hole Blower | 1 |
| HCPHV | Hole Blower High Volume | 1 |
| HCBT13 | Hole Cleaning Brush 13 mm | 1 |
| HCBT20 | Hole Cleaning Brush 20 mm | 1 |
| HCBT26 | Hole Cleaning Brush 26 mm | 1 |

ChemSet™ REO502™ - Indicative Working Loads in 32MPa Concrete with ChemSet™ Anchor Studs

| Thread Ø | Hole Ø (mm) | Embed Depth (mm) | Max Torque (Nm) | Min Edge Distance (mm) | Min Anchor Spacing (mm) | Max Shear Load* (kN) | Max Tension Load* (kN) |
|-------------|----------------|------------------------|-----------------------|------------------------------|-------------------------------|----------------------------|------------------------------|
| M8 | 10 | 80 | 10 | 25 | 25 | 4.4 | 6.3 |
| M10 | 12 | 90 | 20 | 30 | 30 | 7.1 | 13.1 |
| M12 | 14 | 110 | 40 | 35 | 35 | 10.5 | 19.0 |
| M16 | 18 | 125 | 95 | 50 | 50 | 19.9 | 30.4 |
| M20 | 24 | 150 | 180 | 60 | 60 | 29.9 | 31.9 |
| M24 | 26 | 160 | 315 | 75 | 75 | 43.3 | 40.9 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

ChemSet™ 801 Injection Anchoring Adhesive



ChemSet™ 801 Injection Anchoring Adhesive

A heavy duty, high performance, chemical resistant, epoxy adhesive. Suitable for threaded studs and reinforcing bar into solid concrete and stone in corrosive environments.

Product Advantages

- Styrene free pumpable resin
- Incredibly fast dispensing formulation
- Easy to use (no heating) even at cold temperatures
- Extension nozzles available for deeper applications
- Approved for use with potable water

Substrates

- Concrete
- Solid block
- Solid brick

Specification

ChemSet™ 801 is a heavy duty, true epoxy injection anchor.

Setting characteristics at 20°C:

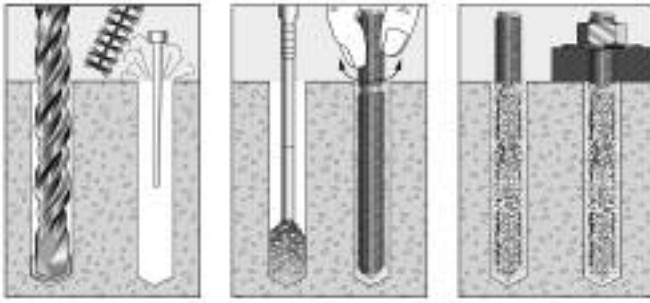
- Working time: 6 minutes
- Full cure time: 14 hours

Applications



- Security shuttering
- Heating applications
- Signs
- Mechanical and electrical services
- Stadium seating

Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Assemble nozzle onto cartridge. Extrude resin until an even mix is achieved and then inject into hole.
4. Insert stud by hand to full depth, using slow rotating movement.
5. Allow ChemSet™ 801 to cure for specified period before applying load.

Product Range - ChemSet™ 801 Injection Anchoring Adhesive

| Part No. | Description | Order Qty |
|-----------------------------------|-------------------------------|-----------|
| Pack Sizes and Accessories | | |
| C801C | Cartridge (380mL) + 1 Nozzle | 1 |
| C801J | Cartridge (750mL) + 1 Nozzle | 1 |
| ISNE | Mixing Nozzles with Extension | 5 |
| CUA | ChemSet™ Universal Applicator | 1 |
| HCP | Hole Blower | 1 |
| HCPHV | Hole Blower High Volume | 1 |
| HCBT13 | Hole Cleaning Brush 13 mm | 1 |
| HCBT20 | Hole Cleaning Brush 20 mm | 1 |
| HCBT26 | Hole Cleaning Brush 26 mm | 1 |

ChemSet™ 801 - Indicative Working Loads in 32MPa Concrete with ChemSet™ Anchor Studs

| Thread Ø | Hole Ø (mm) | Embed Depth (mm) | Max Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load* (kN) | Max Tension Load* (kN) |
|-------------|----------------|------------------------|-----------------------|--------------------------|-------------------------------|----------------------------|------------------------------|
| M8 | 10 | 80 | 10 | 25 | 25 | 4.4 | 6.5 |
| M10 | 12 | 90 | 20 | 30 | 30 | 7.1 | 9.9 |
| M12 | 14 | 110 | 40 | 35 | 35 | 10.5 | 14.4 |
| M16 | 18 | 125 | 95 | 50 | 50 | 19.9 | 19.6 |
| M20 | 24 | 150 | 180 | 60 | 60 | 29.9 | 28.1 |
| M24 | 26 | 160 | 315 | 75 | 75 | 43.3 | 33.3 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

ChemSet™ 101 Injection Anchoring Adhesive



ChemSet™ 101 Injection Anchoring Adhesive

A fast curing multi purpose chemical mortar for stress free anchoring into solid concrete and masonry or hollow brick and concrete block.

Product Advantages

- High performance vinylester resin
- Ideal for damp conditions
- Incredibly fast dispensing formulation
- Significantly faster curing times
- Easy to use (no heating) even at cold temperatures
- One solution for both hollow and solid materials

Substrates

- Concrete
- Hollow block wall
- Solid block
- Hollow brick
- Solid brick
- Hollow floor beams

Specification

ChemSet™ 101 is a medium duty, peroxide initiated injection anchor.

Setting characteristics at 20°C:

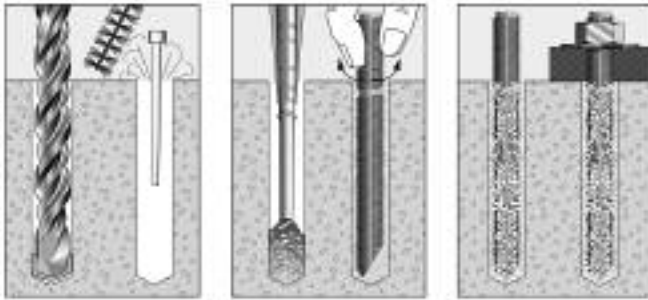
- Working time: 10 minutes
- Full cure time: 1.5 hours

Applications



- Reinforcing and starter bars
- Medium duty anchoring
- Mechanical and electrical services
- Fixing machinery
- Damp environments
- Rebar installation
- Hollow block and brick
- Not recommended for use in cored holes

Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Assemble nozzle onto cartridge. Extrude resin until an even mix is achieved and then inject into hole.
4. Insert stud by hand to full depth, using a slow rotating movement.
5. Allow ChemSet™ 101 to cure for specified period before applying load.

Product Range - ChemSet™ 101 Injection Anchoring Adhesive

| Part No. | Description | Order Qty |
|-----------------------------------|---|-----------|
| Pack Sizes and Accessories | | |
| C101C | Cartridge (380mL) + 2 Nozzles | 1 |
| C101J | Cartridge (750mL) + 2 Nozzles | 1 |
| ISKP | 2 x 380mL Cartridges + 4 Nozzles | 1 |
| ISKPT | 2 x 380mL Cartridges + 4 Nozzles Tropical | 1 |
| C380A | ChemSet™ (380mL) Applicator | 1 |
| CUA | ChemSet™ Universal Applicator | 1 |
| ISNP | Mixing Nozzles | 5 |
| HCP | Hole Blower | 1 |
| HCPHV | Hole Blower High Volume | 1 |
| HCBT13 | Hole Cleaning Brush 13 mm | 1 |
| HCBT20 | Hole Cleaning Brush 20 mm | 1 |
| HCBT26 | Hole Cleaning Brush 26 mm | 1 |

ChemSet™ 101 - Indicative Working Loads in 32MPa Concrete with ChemSet™ Anchor Studs

| Thread Ø | Hole Ø (mm) | Embed Depth (mm) | Max Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load* (kN) | Max Tension Load* (kN) |
|-------------|----------------|------------------------|-----------------------|--------------------------|-------------------------------|----------------------------|------------------------------|
| M8 | 10 | 80 | 10 | 25 | 25 | 4.4 | 4.5 |
| M10 | 12 | 90 | 20 | 30 | 30 | 7.1 | 6.0 |
| M12 | 14 | 110 | 40 | 35 | 35 | 10.5 | 8.6 |
| M16 | 18 | 125 | 95 | 50 | 50 | 19.9 | 13.5 |
| M20 | 24 | 150 | 180 | 60 | 60 | 30.0 | 22.3 |
| M24 | 26 | 160 | 315 | 75 | 75 | 43.4 | 32.7 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

UltraFix™ Plus



UltraFix™ Plus

Quick cure, light duty polyester anchoring adhesive ideal for domestic anchoring of threaded studs, brick and block.

Product Advantages

- Fast cure
- Use in caulking gun
- Low odour, styrene free, not flammable
- Ability to change nozzles
- Resistant to dripping and running from holes in vertical walls
- Does not go hard in cooler temperatures

Substrates

- Brick
- Block

Overview

UltraFix™ Plus is a fast curing adhesive for anchoring threaded rods and deformed bar into concrete and masonry. UltraFix™ Plus is styrene free, low odour and non flammable, making it user friendly for domestic applications.

Applications



- Anchoring threaded rods and studs for:
 - Timber bottom plate hold down
 - Cyclone rods
 - Gate hinges

Product Range - UltraFix™ Plus

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------|-----------|
| UFP300 | Grey | 300mL | 1 |

Accessories



| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

ChemSet™ Anchor Studs - Zinc Plated



| Part No | Anchor Size (mm) | Stud Length (mm) | Max Fixture Thickness (mm) | Drilled Hole Ø (mm) | Min Hole Depth (mm) | Order Qty |
|---------|---------------------|---------------------|-------------------------------|------------------------|------------------------|--------------|
| CS08110 | 8 | 110 | 15 | 10 | 80 | 10 |
| CS10130 | 10 | 130 | 25 | 12 | 90 | 10 |
| CS12160 | 12 | 160 | 30 | 14 | 110 | 10 |
| CS12180 | 12 | 180 | 50 | 14 | 110 | 10 |
| CS16190 | 16 | 190 | 40 | 18 | 125 | 10 |
| CS20260 | 20 | 260 | 75 | 24 | 150 | 6 |
| CS24300 | 24 | 300 | 105 | 26 | 160 | 6 |

ChemSet™ Anchor Studs - Stainless Steel AISI 316(A4)



| Part No | Anchor Size (mm) | Stud Length (mm) | Max Fixture Thickness (mm) | Drilled Hole Ø (mm) | Min Hole Depth (mm) | Order Qty |
|-----------|---------------------|---------------------|-------------------------------|------------------------|------------------------|--------------|
| CS08110SS | 8 | 110 | 15 | 10 | 80 | 10 |
| CS10130SS | 10 | 130 | 25 | 12 | 90 | 10 |
| CS12160SS | 12 | 160 | 30 | 14 | 110 | 10 |
| CS16190SS | 16 | 190 | 40 | 18 | 125 | 10 |
| CS20260SS | 20 | 260 | 75 | 24 | 150 | 6 |
| CS24300SS | 24 | 300 | 105 | 26 | 160 | 6 |

ChemSet™ Anchor Studs - Hot Dipped Galvanised



| Part No | Anchor Size (mm) | Stud Length (mm) | Max Fixture Thickness (mm) | Drilled Hole Ø (mm) | Min Hole Depth (mm) | Order Qty |
|-----------|---------------------|---------------------|-------------------------------|------------------------|------------------------|--------------|
| CS08110GH | 8 | 110 | 15 | 10 | 80 | 10 |
| CS10130GH | 10 | 130 | 25 | 12 | 90 | 10 |
| CS12160GH | 12 | 160 | 30 | 14 | 110 | 10 |
| CS16190GH | 16 | 190 | 40 | 18 | 125 | 10 |
| CS20260GH | 20 | 260 | 75 | 24 | 150 | 10 |
| CS24300GH | 24 | 300 | 105 | 26 | 160 | 6 |

Hole Cleaning Accessories

| Part No | Description | Drill Size | Length (mm) | Order Qty |
|---------|---|------------|-------------|-----------|
| HCBT13 | Wire Brush Head Ø 10mm x 120mm | 10-14 | 200 | 1 |
| HCBT20 | Wire Brush Head Ø 16mm x 120mm | 18-22 | 300 | 1 |
| HCBT26 | Wire Brush Head Ø 25mm x 120mm | 22-26 | 310 | 1 |
| HCP | Hand Operated Blow Out Tool | | | 1 |
| HCPHV | Hand Operated Blow Out Tool High Volume | | | 1 |



Sleeve for Hollow Base Materials and Overhead Applications in Solid Materials



| Part No | Description | Suit Stud Ø (mm) | Drill Size | Order Qty |
|-------------|-----------------------|------------------|------------|-----------|
| ISS08 Nylon | Sleeve Ø 12.5mm x 1m | 8 | 12 | 100 |
| ISS10 Nylon | Sleeve Ø 15mm x 1m | 10 | 14 | 100 |
| ISS12 Nylon | Sleeve Ø 20.5mm x 1m | 12 | 16 | 100 |
| ISM10 | Fine Metal Mesh Sieve | 6/8 | 12 | 1 |
| ISM12 | Fine Metal Mesh Sieve | 10/12 | 16 | 1 |
| ISM16 | Fine Metal Mesh Sieve | 16 | 22 | 1 |

Retaining Collar for Hollow Base Materials and Overhead Applications in Solid Materials



| Part No | Description | Suit Anchor | Order Qty |
|---------|-----------------------|-------------|-----------|
| ISR08 | 8mm Retaining Collar | CS08110 | 100 |
| ISR10 | 10mm Retaining Collar | CS10130 | 100 |
| ISR12 | 12mm Retaining Collar | CS12160 | 100 |
| ISR16 | 16mm Retaining Collar | CS16190 | 100 |

ChemSet™ Universal Applicator



Chemset™ Injection dispensing gun

- Robust all-metal construction
- Twin drive dog for powerful dispensing

USES

- Dispensing Chemset™ Reo502™ (Part Number REO502J)
- Dispensing Chemset™ Injection 801 (Part Numbers C801C, C801J)
- Dispensing Chemset™ Injection 101 (Part Numbers C101C, C101J, ISKP)

| Part No. | Description | Order Qty |
|----------|-------------------------------|-----------|
| CUA | ChemSet™ Universal Applicator | 1 |

ChemSet™ Applicator



USES

- Dispensing of C101C and ISKP.

| Part No. | Description | Order Qty |
|----------|---------------------|-----------|
| C380A | ChemSet™ Applicator | 1 |

ChemSet™ Pneumatic Powered Applicator



Effortless dispensing of all products in the Chemset™ Injection range

- Powered by compressed air
- Reduces fatigue when dispensing a large number of cartridges

USES

- Dispensing Chemset™ Reo502™ (Part Number REO502J)
- Dispensing Chemset™ Injection 801 (Part Numbers C801C, C801J)
- Dispensing Chemset™ Injection 101 (Part Numbers C101C, C101J, ISKP)

| Part No. | Description | Order Qty |
|----------|---------------------------------------|-----------|
| CUAPN | ChemSet™ Pneumatic Powered Applicator | 1 |

Manual Caulking Gun



USES

- Dispensing UltraFix™ Plus and various Ramset™ sealants and adhesives.

| Part No. | Description | Suits | Order Qty |
|----------|--------------------|-----------------|-----------|
| CAGU300 | Caulking Gun | 300mL Cartridge | 1 |
| CAGU850 | Caulking Gun 850mL | 850mL Cartridge | 1 |





SpaTec™ Plus Safety Anchors



Substrates

- Concrete

Typical Applications

- Structural steel columns
- Steel beams
- Holding down machinery
- Steel bollards
- Industrial doors



A. Hex Bolt

B. Countersunk Head

The Heavy Duty Anchor Range

SpaTec™ Plus Safety Anchors are heavy duty, torque controlled structural anchors with “pull-down” action.

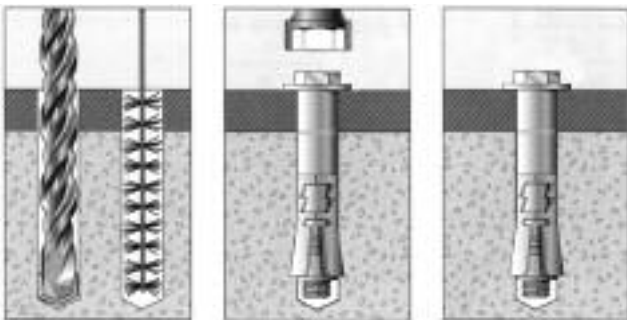
Product Advantages

- Heavy duty torque controlled anchors suitable for use in concrete over 20MPa
- Through fixing - no marking out and repositioning
- Fully assembled
- Variety of head styles
- Metal “pull-down” sleeve
- Four way expansion - high performance of fixture clamping
- Thick wall steel spacer - increased resistance of shear forces
- Achieves high pull-out and pull-down force values
- High shear and tensile capacity, 8.8 grade bolt

Specification

The SpaTec™ Plus Safety Anchor is ideally suited where security and reliability are paramount

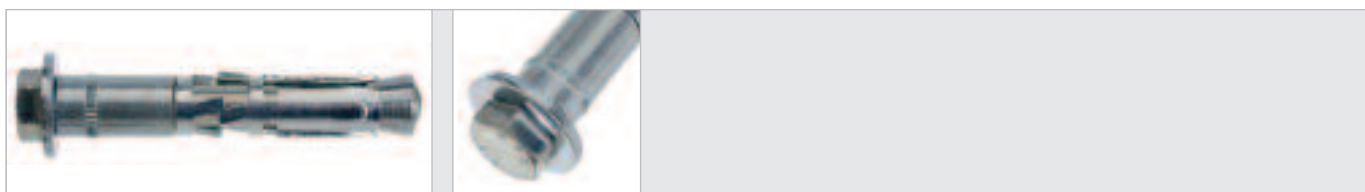
Installation



1. Drill the correct diameter hole to the same diameter as the SpaTec™ Plus Safety Anchor selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Install the anchor in the hole with a hammer until washer seats on fixture.
4. Tighten bolt with a torque wrench to recommended assembly torque.

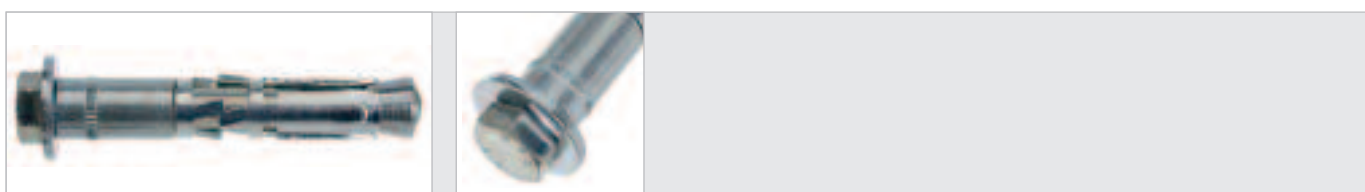
HEAVY DUTY ANCHORS

SpaTec™ Plus Safety Anchors - Zinc Plated



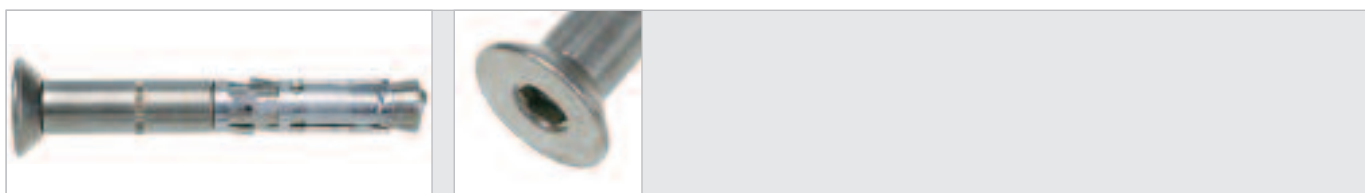
| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Effective Length | Order Qty |
|---------|-------------|-------------------------------|-------------------------------|----------------|------------------------|---------------------|--------------|
| SP10105 | M10 | 20 | 105 | 15 | 95 | 90 | 25 |
| SP12105 | M12 | 10 | 105 | 18 | 95 | 90 | 25 |
| SP12120 | M12 | 25 | 120 | 18 | 115 | 105 | 25 |
| SP16145 | M16 | 25 | 145 | 24 | 135 | 125 | 10 |
| SP20170 | M20 | 25 | 170 | 28 | 165 | 150 | 5 |

SpaTec™ Plus Stainless Steel AISI 316(A4)



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Effective Length | Order Qty |
|-----------|-------------|-------------------------------|-------------------------------|----------------|------------------------|---------------------|--------------|
| SP10105SS | M10 | 20 | 105 | 15 | 95 | 90 | 25 |
| SP12120SS | M12 | 25 | 120 | 18 | 105 | 95 | 25 |
| SP16145SS | M16 | 25 | 145 | 24 | 135 | 115 | 10 |

SpaTec™ Plus Countersunk Head - Zinc Plated



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Effective Length | Order Qty |
|----------|-------------|-------------------------------|-------------------------------|----------------|------------------------|---------------------|--------------|
| SP10105F | M10 | 27 | 105 | 15 | 95 | 90 | 25 |
| SP12120F | M12 | 40 | 120 | 18 | 105 | 95 | 25 |

SpaTec™ Plus Safety Anchors - Indicative Working Loads in 32MPa Concrete

| Thread Ø | Embed Depth (mm) | Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load (kN)* | Max Tensile Load (kN)* |
|-------------|---------------------|----------------|-----------------------|----------------------------|-------------------------|---------------------------|
| M10 | 80 | 50 | 100 | 65 | 19.3 | 16.7 |
| M12 | 95 | 80 | 120 | 80 | 27.6 | 22.6 |
| M16 | 115 | 120 | 160 | 105 | 52.3 | 32.4 |
| M20 | 140 | 200 | 205 | 135 | 75.8 | 46.0 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

TruBolt™ Stud Anchors



Substrates

- Concrete
- Solid Brickwork

Typical Applications

- Structural beams and columns
- Wall to floor framework
- Steel to concrete
- Pallet racking and guards
- Lift rails
- Stadium seating
- Safety barriers

The true to size heavy duty anchor

The TruBolt™ stud anchor is a true to size, torque controlled expansion anchor.

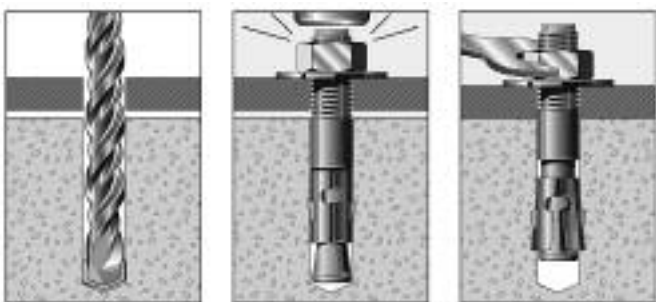
Product Advantages

- Load assisted through fixing
- Anti-rotation expansion sleeve
- Drill bit required is same diameter as anchor
- Expansion sleeve design ensures maximum expansion
- Fully assembled
- Maximum shear capacity for hole size as the stud diameter equals the hole diameter

Specification

TruBolt™ is a heavy duty, torque setting expansion anchor for permanent anchoring into solid substrates, such as concrete

Installation



1. Drill the correct diameter hole to the same diameter as the TruBolt™ stud anchor selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Install the anchor in the hole with a hammer until washer seats on fixture.
4. Tighten bolt with a torque wrench to recommended assembly torque.

HEAVY DUTY ANCHORS

TruBolt™ Stud Anchors - Zinc Plated



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Anchor/Hole Ø (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|---------|-------------|-------------------------------|-------------------------------|-----------------------|------------------------|--------------------------|--------------|
| T06055 | M6 | 15 | 55 | 6 | 55 | 38 | 100 |
| T06085 | M6 | 45 | 85 | 6 | 55 | 68 | 100 |
| T06120 | M6 | 80 | 120 | 6 | 45 | 103 | 50 |
| T08065 | M8 | 12 | 65 | 8 | 65 | 45 | 50 |
| T08090 | M8 | 40 | 90 | 8 | 75 | 70 | 50 |
| T10075 | M10 | 12 | 75 | 10 | 80 | 52 | 50 |
| T10090 | M10 | 30 | 90 | 10 | 90 | 67 | 50 |
| T10120 | M10 | 50 | 120 | 10 | 100 | 97 | 20 |
| T12080 | M12 | 6 | 80 | 12 | 90 | 58 | 20 |
| T12100 | M12 | 25 | 100 | 12 | 105 | 71 | 20 |
| T12120 | M12 | 45 | 120 | 12 | 105 | 93 | 20 |
| T12140 | M12 | 65 | 140 | 12 | 105 | 111 | 20 |
| T12180 | M12 | 100 | 180 | 12 | 125 | 151 | 20 |
| T16100 | M16 | 8 | 100 | 16 | 115 | 67 | 20 |
| T16125 | M16 | 20 | 125 | 16 | 135 | 85 | 20 |
| T16150 | M16 | 45 | 150 | 16 | 145 | 110 | 20 |
| T16175 | M16 | 70 | 175 | 16 | 145 | 135 | 20 |
| T20120 | M20 | 10 | 120 | 20 | 140 | 85 | 10 |
| T20160 | M20 | 35 | 160 | 20 | 170 | 115 | 10 |
| T20215 | M20 | 90 | 215 | 20 | 200 | 170 | 10 |

TruBolt™ Stud Anchors- Stainless Steel AISI 316(A4)



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Anchor/Hole Ø (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|----------|-------------|-------------------------------|-------------------------------|-----------------------|------------------------|--------------------------|--------------|
| T06055SS | M6 | 15 | 55 | 6 | 55 | 38 | 100 |
| T06085SS | M6 | 45 | 85 | 6 | 55 | 68 | 100 |
| T08065SS | M8 | 12 | 65 | 8 | 65 | 45 | 100 |
| T08090SS | M8 | 40 | 90 | 8 | 75 | 70 | 50 |
| T10075SS | M10 | 12 | 75 | 10 | 80 | 52 | 50 |
| T10090SS | M10 | 30 | 90 | 10 | 90 | 67 | 50 |
| T10120SS | M10 | 50 | 120 | 10 | 100 | 97 | 20 |
| T12080SS | M12 | 6 | 80 | 12 | 90 | 58 | 20 |
| T12100SS | M12 | 25 | 100 | 12 | 105 | 71 | 20 |
| T12140SS | M12 | 65 | 140 | 12 | 105 | 111 | 20 |
| T12180SS | M12 | 100 | 180 | 12 | 125 | 151 | 20 |
| T16100SS | M16 | 8 | 100 | 16 | 115 | 67 | 20 |
| T16125SS | M16 | 20 | 125 | 16 | 135 | 85 | 20 |
| T16150SS | M16 | 45 | 150 | 16 | 145 | 110 | 20 |
| T16175SS | M16 | 70 | 175 | 16 | 145 | 135 | 20 |
| T20120SS | M20 | 10 | 120 | 20 | 140 | 85 | 10 |
| T20160SS | M20 | 35 | 160 | 20 | 170 | 115 | 10 |

TruBolt™ Anchors - Hot Dipped Galvanized



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Anchor/Hole Ø (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|----------|-------------|-------------------------------|-------------------------------|-----------------------|------------------------|--------------------------|--------------|
| T08090GH | M8 | 40 | 90 | 8 | 75 | 70 | 50 |
| T10090GH | M10 | 30 | 90 | 10 | 90 | 67 | 50 |
| T12080GH | M12 | 6 | 80 | 12 | 90 | 58 | 50 |
| T12100GH | M12 | 25 | 100 | 12 | 105 | 71 | 20 |
| T12140GH | M12 | 65 | 140 | 12 | 105 | 111 | 20 |
| T12180GH | M12 | 100 | 180 | 12 | 125 | 151 | 20 |
| T16100GH | M16 | 8 | 100 | 16 | 115 | 67 | 20 |
| T16125GH | M16 | 20 | 125 | 16 | 135 | 85 | 20 |
| T16150GH | M16 | 45 | 150 | 16 | 145 | 110 | 20 |
| T16175GH | M16 | 70 | 175 | 16 | 145 | 135 | 20 |
| T20120GH | M20 | 10 | 120 | 20 | 140 | 85 | 10 |
| T20160GH | M20 | 35 | 160 | 20 | 170 | 115 | 10 |
| T20215GH | M20 | 90 | 215 | 20 | 200 | 170 | 10 |

TruBolt™ Anchors - Indicative Working Loads in 32MPa Concrete

| Thread Ø | Embed Depth (mm) | Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load (kN)* | Max Tensile Load (kN)* |
|-------------|---------------------|----------------|-----------------------|----------------------------|-------------------------|---------------------------|
| M6 | 32 | 10 | 45 | 30 | 2.8 | 3.4 |
| M8 | 54 | 20 | 55 | 35 | 4.9 | 7.2 |
| M10 | 72 | 35 | 60 | 40 | 6.8 | 9.9 |
| M12 | 86 | 50 | 65 | 45 | 8.6 | 12.7 |
| M16 | 115 | 155 | 75 | 50 | 14.4 | 20.9 |
| M20 | 145 | 355 | 95 | 60 | 27.3 | 32.5 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

Notes

[illegible]

Boa™ Coil Expansion Anchors



The removable expansion type anchor

The Boa™ Coil Anchor is a heavy duty, rotation setting anchor.

Product Advantages

- High load capacity due to expansion coil locking in to concrete to give cast-in type performance
- High clamping load because rotation setting action pulls down
- Resistant to cyclic loading due to the pull-down action
- Easy and fast to remove as the expansion coil stays in the hole leaving no protruding metal parts to grind off

Substrates

- Concrete

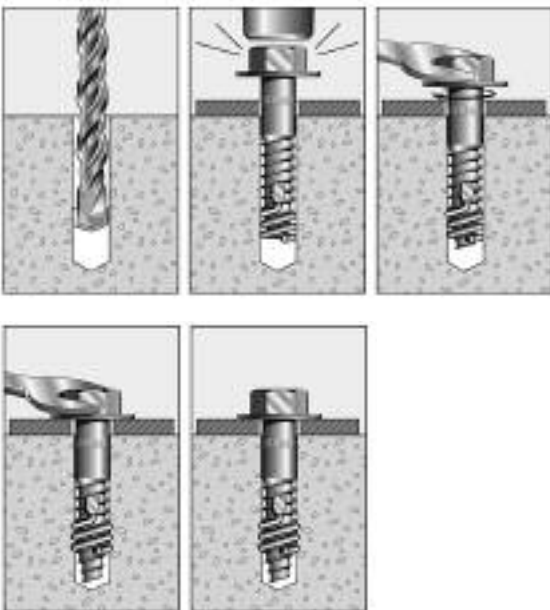
Typical Applications

- Installing handrails and balustrades
- Anchoring braces and precast panels
- Machinery hold down
- Formwork support
- Safety barriers

Specification

The Boa™ Coil Anchor is a high strength, removable expansion type anchor for strong positive anchoring into concrete

Installation



1. Using the fixture as a template, drill the correct diameter and depth hole. Clean hole with a brush and remove debris with vacuum or hand pump.
2. Insert the assembled Boa™ Coil anchor. (The coil tab points up the anchor.) Tap anchor down to depth set mark and stop.
3. Wind the anchor down until the washer is firmly held to the fixture and stop. (For the number of turns required to set anchor refer to details on installation and performance.)
4. Ensure washer is tight and snug fit.
5. The Boa™ Coil anchor is ready to take load. (The bolt can be removed leaving the coil in the hole. To re-insert, follow steps 3 and 4.)

HEAVY DUTY ANCHORS

Boa™ Coil Expansion Anchors



| Part No. | Coil Only Part No. | Anchor Size (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth | Order Qty |
|----------|-----------------------|---------------------|-------------------------------|-------------------------------|----------------|-------------------|--------------|
| BAC08075 | BAC08 | 13 | 12 | 75 | 13 | 90 | 100 |
| BAC08100 | BAC08 | 13 | 30 | 100 | 13 | 100 | 100 |
| BAC10090 | BAC10 | 16 | 12 | 90 | 16 | 105 | 50 |
| BAC10125 | BAC10 | 16 | 40 | 125 | 16 | 130 | 50 |
| BAC12085 | BAC12 | 19 | 6 | 85 | 19 | 105 | 50 |
| BAC12115 | BAC12 | 19 | 25 | 115 | 19 | 120 | 50 |

Boa™ Coil Expansion Anchors - Indicative Working Loads in 32MPa Concrete

| Anchor Size | Embed Depth (mm) | Torque (turns to set) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear load (kN)* | Max Tensile Load (kN)* |
|----------------|---------------------|--------------------------|-----------------------|----------------------------|-------------------------|---------------------------|
| 13 | 75 | 5 turns | 65 | 105 | 15.4 | 12.6 |
| 16 | 90 | 5 turns | 80 | 130 | 26.0 | 18.6 |
| 19 | 80 | 5 turns | 95 | 150 | 28.4 | 19.6 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

AnkaScrew™ Screw-In Anchors



The removable medium duty anchor

The AnkaScrew™ Screw-In Anchor is a medium duty, rotation setting thread forming anchor.

Product Advantages

- Fast and easy to install
- Fast and easy to remove
- Does not expand and burst concrete which allows close to edge installation

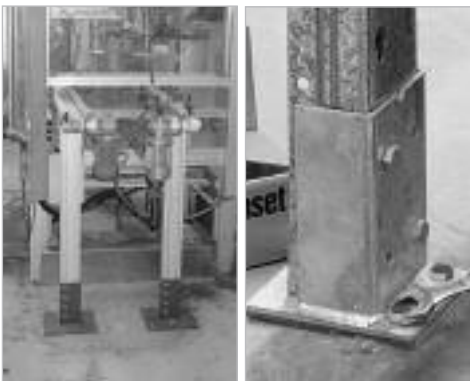
Substrates

- Concrete
- Masonry
- Hollow Brick
- Hollow Block

Specification

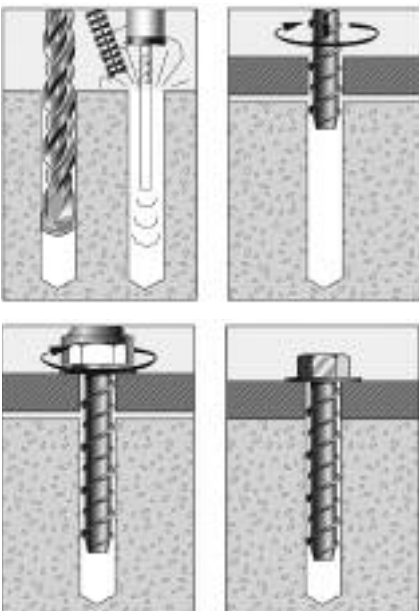
The AnkaScrew™ Screw-In Anchor is an all steel, screw in, non-expansion, removable anchor for fast and simple anchoring into solid concrete, masonry and hollow brick and block

Typical Applications



- Pallet racking
- Temporary safety barriers
- Conveyors
- Pipe brackets
- Gate hinges into brickwork
- Temporary hand rails
- Bottom plates

Installation



1. Drill hole to correct diameter and depth. Clean thoroughly with brush, pump, etc.
2. Using a socket wrench, screw the AnkaScrew™ into the hole using slight pressure until the self tapping action starts.
3. Tighten the AnkaScrew™. Ensure not to over tighten.
4. For optimum performance, a torque wrench should be used.

MEDIUM DUTY ANCHORS

AnkaScrew™ Screw-In Anchors - Zinc Plated & Mechanically Galvanised



| Part No. Zinc Plated | Part No. Mechanically Galvanised | Anchor Diameter (mm) | Anchor Length (mm) | Maximum Fixture Thickness (mm) | Hole Ø (mm) | Hole Depth (mm) | Fixture Hole Diameter (mm) | Order Qty |
|-------------------------|--|----------------------------|--------------------------|---|-------------------|-----------------------|-------------------------------------|-----------|
| AS05030H | AS05030HGH | 5 | 30 | 5 | 5 | 30 | 7 | 100 |
| AS06050H | AS06050HGH | 6 | 50 | 20 | 6 | 60 | 8 | 100 |
| AS06075H | AS06075HGH | 6 | 75 | 45 | 6 | 65 | 8 | 100 |
| AS06100H | AS06100HGH | 6 | 100 | 70 | 6 | 65 | 8 | 100 |
| AS08060H | AS08060HGH | 8 | 60 | 20 | 8 | 75 | 10 | 100 |
| AS08075H | AS08075HGH | 8 | 75 | 35 | 8 | 75 | 10 | 100 |
| AS08100H | AS08100HGH | 8 | 100 | 60 | 8 | 80 | 10 | 100 |
| AS10060H | AS10060HGH | 10 | 60 | 10 | 10 | 80 | 12 | 50 |
| AS10075H | AS10075HGH | 10 | 75 | 25 | 10 | 85 | 12 | 50 |
| AS10100H | AS10100HGH | 10 | 100 | 50 | 10 | 95 | 12 | 50 |
| AS10150H | AS10150HGH | 10 | 150 | 100 | 10 | 120 | 12 | 50 |
| AS12075H | AS12075HGH | 12 | 75 | 15 | 12 | 100 | 14 | 50 |
| AS12100H | AS12100HGH | 12 | 100 | 40 | 12 | 110 | 14 | 50 |
| AS12150H | AS12150HGH | 12 | 150 | 90 | 12 | 110 | 14 | 20 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

AnkaScrew™ Screw-In Anchors - Indicative Working Loads in 32MPa Concrete

| Anchor Size Hole Ø (mm) | Embed Depth (mm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load (kN)* | Max Tensile Load (kN)* |
|----------------------------|---------------------|-----------------------|----------------------------|-------------------------|---------------------------|
| 6 | 45 | 20 | 20 | 4.5 | 4.1 |
| 8 | 60 | 25 | 25 | 8.4 | 6.6 |
| 10 | 75 | 30 | 30 | 13.8 | 9.8 |
| 12 | 90 | 35 | 35 | 16.7 | 14.4 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

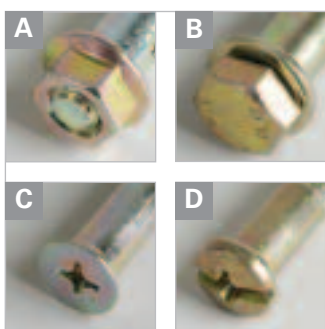
DynaBolt™ Sleeve Anchors



Substrates

- Concrete
- Solid block
- Solid brick

Head Styles



- A. Hex Nut C. Countersunk Head
B. Hex Bolt D. Round Head

Typical Applications



- Timber to concrete, formwork, battens, bottom plates
- Services - Ductwork, pipe brackets, cable trays, suspended ceilings
- Metalwork - Signs, handrails, gates
- Light to medium duty loading

The unique design of DynaBolt™

Twists, shortens and pulls down to increase holding power. For medium duty anchoring of timber and steel fixtures to concrete.

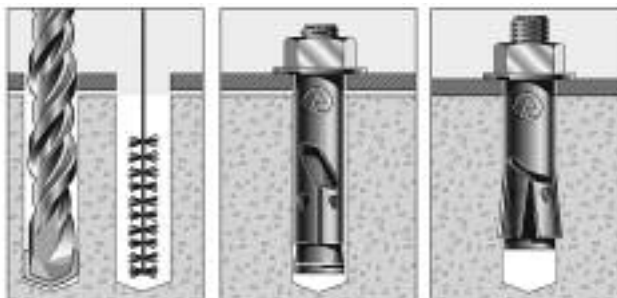
Product Advantages

- Through fixing - no marking out and repositioning
- Fully assembled
- Variety of head styles
- Unique sleeve design collapses during tightening to provide pull-down onto fixture
- Integral nut and washer
- Finished head anchors, bolt can be easily removed

Specification

DynaBolt™ is a patented design sleeve anchor with the unique ability to "pull-down" and ensure a tight and secure anchoring of the fixture

Installation



1. Drill correct diameter hole to recommended depth for the DynaBolt™ selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Insert anchor through fixture and tap in until washer contacts fixture.
4. Tighten bolt with a torque wrench to the recommended tightening torque for the DynaBolt™ selected.

MEDIUM DUTY ANCHORS

DynaBolt™ Sleeve Anchor Hex Nut - Zinc Plated



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| D6026 | M4.5 | 3 | 26 | 6 | 8 | 30 | 23 | 100 |
| DP06040 | M4.5 | 12 | 38 | 6 | 8 | 45 | 34 | 100 |
| DP06060 | M4.5 | 30 | 57 | 6 | 8 | 55 | 53 | 100 |
| DP08040 | M6 | 6 | 40 | 8 | 10 | 50 | 34 | 100 |
| DP08065 | M6 | 25 | 66 | 8 | 10 | 65 | 60 | 50 |
| DP08090 | M6 | 50 | 92 | 8 | 10 | 75 | 86 | 50 |
| DP10040 | M8 | 3 | 41 | 10 | 12 | 50 | 34 | 50 |
| DP10050 | M8 | 20 | 49 | 10 | 12 | 55 | 42 | 50 |
| DP10075 | M8 | 30 | 76 | 10 | 12 | 65 | 69 | 50 |
| DP10100 | M8 | 50 | 103 | 10 | 12 | 80 | 96 | 25 |
| DP10125 | M8 | 80 | 124 | 10 | 12 | 85 | 117 | 25 |
| DP12060 | M10 | 10 | 55 | 12 | 15 | 70 | 47 | 25 |
| DP12070 | M10 | 15 | 70 | 12 | 15 | 70 | 62 | 25 |
| DP12100 | M10 | 45 | 98 | 12 | 15 | 95 | 90 | 20 |
| DP12125 | M10 | 70 | 126 | 12 | 15 | 95 | 118 | 20 |
| DP16065 | M12 | 6 | 62 | 16 | 19 | 80 | 51 | 20 |
| DP16110 | M12 | 35 | 106 | 16 | 19 | 120 | 95 | 10 |
| DP16140 | M12 | 65 | 140 | 16 | 19 | 120 | 129 | 10 |
| DP20080 | M16 | 8 | 81 | 20 | 24 | 100 | 70 | 10 |
| DP20115 | M16 | 25 | 113 | 20 | 24 | 125 | 102 | 5 |
| DP20160 | M16 | 70 | 157 | 20 | 24 | 155 | 146 | 5 |

DynaBolt™ Plus Sleeve Anchor Hex Nut - Stainless Steel Grade AISI 316(A4)



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|-----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| DP06040SS | M4.5 | 12 | 38 | 6 | 8 | 45 | 34 | 100 |
| DP06060SS | M4.5 | 30 | 57 | 6 | 8 | 55 | 53 | 100 |
| DP08040SS | M6 | 6 | 40 | 8 | 10 | 50 | 34 | 100 |
| DP08065SS | M6 | 25 | 66 | 8 | 10 | 65 | 60 | 50 |
| DP08090SS | M6 | 50 | 92 | 8 | 10 | 75 | 86 | 50 |
| DP10050SS | M8 | 20 | 49 | 10 | 12 | 55 | 42 | 50 |
| DP10075SS | M8 | 30 | 76 | 10 | 12 | 65 | 69 | 50 |
| DP10100SS | M8 | 50 | 103 | 10 | 12 | 80 | 96 | 25 |
| DP12060SS | M10 | 10 | 55 | 12 | 15 | 70 | 47 | 25 |
| DP12070SS | M10 | 15 | 70 | 12 | 15 | 70 | 62 | 25 |
| DP12100SS | M10 | 45 | 98 | 12 | 15 | 95 | 90 | 20 |
| DP12125SS | M10 | 70 | 126 | 12 | 15 | 95 | 118 | 20 |

DynaBolt™ Sleeve Anchor Hex Nut - Hot Dipped Galvanised



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|-----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| DP10040GH | M8 | 3 | 41 | 10 | 12 | 50 | 34 | 50 |
| DP10050GH | M8 | 20 | 49 | 10 | 12 | 55 | 42 | 50 |
| DP10075GH | M8 | 30 | 76 | 10 | 12 | 65 | 69 | 50 |
| DP10100GH | M8 | 50 | 103 | 10 | 12 | 80 | 96 | 25 |
| DP12060GH | M10 | 10 | 55 | 12 | 15 | 70 | 47 | 25 |
| DP12070GH | M10 | 15 | 70 | 12 | 15 | 70 | 62 | 25 |
| DP12100GH | M10 | 45 | 98 | 12 | 15 | 95 | 90 | 20 |
| DP12125GH | M10 | 70 | 126 | 12 | 15 | 95 | 118 | 20 |
| DP16065GH | M12 | 6 | 62 | 16 | 19 | 80 | 51 | 20 |
| DP16110GH | M12 | 35 | 106 | 16 | 19 | 120 | 95 | 10 |
| DP16140GH | M12 | 65 | 140 | 16 | 19 | 120 | 129 | 10 |
| DP20080GH | M16 | 8 | 81 | 20 | 24 | 100 | 70 | 5 |
| DP20115GH | M16 | 25 | 113 | 20 | 24 | 125 | 102 | 5 |

DynaBolt™ Sleeve Anchor Hex Bolt - Zinc Plated



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| DP08045H | M6 | 15 | 45 | 8 | 10 | 55 | 34 | 100 |
| DP08070H | M6 | 32 | 70 | 8 | 10 | 65 | 60 | 50 |
| DP10045H | M8 | 8 | 45 | 10 | 12 | 55 | 34 | 50 |
| DP10055H | M8 | 20 | 55 | 10 | 12 | 55 | 42 | 50 |
| DP10080H | M8 | 30 | 80 | 10 | 12 | 80 | 69 | 50 |
| DP10105H | M8 | 60 | 105 | 10 | 12 | 85 | 96 | 25 |
| DP12065H | M10 | 15 | 65 | 12 | 15 | 75 | 47 | 25 |
| DP12075H | M10 | 20 | 75 | 12 | 15 | 75 | 62 | 25 |
| DP12105H | M10 | 50 | 110 | 12 | 15 | 95 | 90 | 20 |
| DP16070H | M12 | 12 | 70 | 16 | 19 | 65 | 51 | 20 |
| DP16110H | M12 | 49 | 110 | 16 | 19 | 95 | 95 | 10 |

MEDIUM DUTY ANCHORS

DynaBolt™ Sleeve Anchor Hex Bolt - Stainless Steel Grade AISI 316(A4)



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|------------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|-----------|
| DP08045HSS | M6 | 15 | 45 | 8 | 10 | 55 | 34 | 100 |
| DP08070HSS | M6 | 32 | 70 | 8 | 10 | 65 | 60 | 50 |
| DP10045HSS | M8 | 8 | 45 | 10 | 12 | 55 | 34 | 50 |
| DP10060HSS | M8 | 20 | 60 | 10 | 12 | 60 | 56 | 50 |
| DP10080HSS | M8 | 30 | 80 | 10 | 12 | 80 | 69 | 50 |
| DP10105HSS | M8 | 60 | 105 | 10 | 12 | 85 | 96 | 25 |
| DP12075HSS | M10 | 20 | 75 | 12 | 15 | 75 | 62 | 25 |

DynaBolt™ Sleeve Anchor Round Head - Zinc Plated



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| D6032R | M4.5 | 5 | 32 | 6 | 8 | 40 | 30 | 100 |
| DP06055R | M4.5 | 25 | 55 | 6 | 8 | 50 | 25 | 100 |

DynaBolt™ Sleeve Anchor Countersunk Head - Zinc Plated



| Part No. | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|-----------|-------------|----------------------------------|----------------------------------|----------------|----------------------------------|---------------------------|-----------------------------|--------------|
| D6034F | M4.5 | 10 | 34 | 6 | 8 | 40 | 30 | 100 |
| *DP06060F | M4.5 | 30 | 60 | 6 | 8 | 50 | 25 | 100 |
| *DP06075F | M4.5 | 45 | 75 | 6 | 8 | 50 | 25 | 100 |
| DP06100F | M4.5 | 70 | 100 | 6 | 8 | 60 | 25 | 100 |
| DP08060F | M6 | 20 | 60 | 8 | 10 | 70 | 30 | 100 |
| DP08085F | M6 | 45 | 85 | 8 | 10 | 75 | 30 | 50 |
| DP10075F | M8 | 30 | 75 | 10 | 12 | 85 | 34 | 50 |
| DP10100F | M8 | 55 | 100 | 10 | 12 | 85 | 34 | 50 |
| DP10125F | M8 | 80 | 125 | 10 | 12 | 105 | 34 | 25 |

* Also available in Stainless Steel Grade AISI 316(A4) . Put SS after Part Number

DynaBolt™ Specials



| Part No. | Description | Thread Diameter | Overall Anchor Length (mm) | Hole Ø (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Order Qty |
|---------------------------|-----------------|-----------------|----------------------------|-------------|----------------------------|---------------------|-----------|
| DR045SS [#] | Round Post Head | M4.5 | 22 | - | - | - | 100 |
| DF045SS [#] | Flat Post Head | M4.5 | 23 | - | - | - | 100 |
| D06026S | Set Lok Bolt | M4.5 | 26 | 6 | - | 30 | 500 |
| D06038S | Set Lok Bolt | M4.5 | 28 | 6 | - | 41 | 100 |
| DR06/DR06SS [#] | Round Post Head | M6 | 22 | - | 10 | - | 100 |
| RFM06/DF06SS [#] | Flat Post Head | M6 | 23 | - | 10 | - | 100 |
| REM06 | Tie Wire Head | M6 | 44 | - | 10 | - | 100 |
| D08042E | Tie Wire Bolt | M6 | 31 | 8 | - | 40 | 100 |
| D08045K | Hook Bolt | M6 | 31 | 8 | - | 40 | 100 |
| D08045X | Eye Bolt | M6 | 40 | 8 | - | 45 | 100 |
| DR08 | Round Post Head | M8 | 24 | - | 12 | - | 100 |
| RFM08/DF08SS [#] | Flat Post Head | M8 | 27 | - | 12 | - | 100 |
| REM08 | Tie Wire Head | M8 | 47 | - | 12 | - | 100 |
| DC10050 | Component Set | M8 | - | 10 | - | 40 | 100 |
| REM10 | Tie Wire Head | M10 | 52 | - | 15 | - | 50 |
| DC12060 | Component Set | M10 | - | 12 | - | 50 | 50 |
| DP16060N | Spring Washer | M12 | 60 | 16 | 19 | 50 | 20 |
| DP20080N | Spring Washer | M16 | 80 | 20 | 24 | 125 | 10 |

[#] Denotes Stainless Steel Grade AISI 316(A4)

DynaBolt™ Anchors - Indicative Working Loads in 32MPa Concrete

| Anchor Size (mm) | Thread Ø | Embed Depth (mm) | Torque (Nm) | Min Edge Dist (mm) | Min Anchor Spacing (mm) | Max Shear Load (kN)* | Max Tensile Load (kN)* |
|------------------|----------|------------------|-------------|--------------------|-------------------------|----------------------|------------------------|
| 6 | M4.5 | 25 | 10 | 55 | 35 | 2.5 | 2.7 |
| 8 | M6 | 35 | 15 | 60 | 40 | 4.0 | 4.2 |
| 10 | M8 | 45 | 35 | 70 | 45 | 6.4 | 5.9 |
| 12 | M10 | 50 | 55 | 70 | 45 | 7.9 | 7.7 |
| 16 | M12 | 65 | 85 | 75 | 50 | 10.5 | 11.9 |
| 20 | M16 | 85 | 165 | 85 | 55 | 15.6 | 16.6 |

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

Notes

Loxin™ Shield Anchors



Loxin™ Shield Anchors offer four way expansion to produce sufficient grip, especially in weak substrates

An all steel expansion anchor with a captive threaded nut for use with machine bolts and threaded rod into solid substrate such as concrete, brick, block and stone.

Product Advantages

- Can be used in all types of base materials
- Simple expansion by tightening bolt
- Fixes wide variety of material thicknesses
- High performance - full area contact in hole (substrate)
- Stainless Steel AISI 316(A4) version - full corrosion resistance (shield only)

Substrates

- Stone
- Concrete
- Brick
- Block

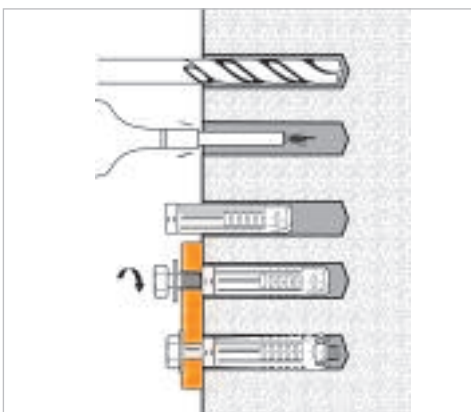
Typical Applications

- Racking and storage
- Stadium seating
- Cable tray trunking
- Pipework switch gear
- Ventilation ducts
- Mechanical and electrical services

Specification

The Loxin™ is a shorter length, thin wall, internally threaded expansion anchor for weaker substrates such as brick, block and stone

Installation



1. Drill the correct diameter hole to the required depth for the Loxin™ selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Insert the anchor fully into the hole.
4. Position the part to be fixed, make the connection using the correct diameter bolt.
5. Tighten with the wrench to obtain the required torque.

MEDIUM DUTY ANCHORS

Loxin™ Shield Anchors - Zinc Plated



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Shield/Hole Ø (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|---------|-------------|----------------------------------|----------------------------------|--------------------------|---------------------------|-----------------------------|-----------|
| RLM06 | M6 | - | 35 | 13 | 40 | 40 | 50 |
| RLM08 | M8 | - | 52 | 16 | 60 | 55 | 25 |
| RLM10 | M10 | - | 52 | 16 | 60 | 55 | 25 |
| RLM12 | M12 | - | 65 | 22 | 70 | 70 | 25 |
| RLM16 | M16 | - | 75 | 26 | 80 | 75 | 25 |

Loxin™ Shield Anchors - Stainless Steel Grade AISI 316(A4)



| Part No | Thread Ø | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Shield/Hole Ø (mm) | Min Hole Depth (mm) | Effective Length (mm) | Order Qty |
|---------|-------------|----------------------------------|----------------------------------|--------------------------|---------------------------|-----------------------------|-----------|
| RLM06SS | M6 | - | 35 | 10 | 45 | 40 | 25 |
| RLM08SS | M8 | - | 52 | 16 | 60 | 55 | 25 |
| RLM10SS | M10 | - | 52 | 16 | 60 | 55 | 25 |
| RLM12SS | M12 | - | 65 | 22 | 70 | 70 | 25 |

Loxin™ Shield Anchors - Indicative Loads in Concrete

| Thread Ø | Embed Depth (mm) | Torque (Nm) | Min Anchor Spacing (mm) | Min Edge Dist (mm) | Max Shear Load (kN) | Max Tensile load (kN) |
|-------------|---------------------|----------------|----------------------------|-----------------------|------------------------|--------------------------|
| M6 | 40 | 4 | 95 | 45 | 1.3 | 2.2 |
| M8 | 55 | 9 | 135 | 70 | 2.4 | 4.0 |
| M10 | 55 | 17 | 135 | 70 | 3.8 | 5.6 |
| M12 | 70 | 30 | 170 | 85 | 5.5 | 8.0 |
| M16 | 75 | 74 | 200 | 100 | 10.2 | 10.1 |

Indicative applied load (kN) in 32MPa concrete

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

DynaSet™ Drop-in Anchors



A broad range of female anchors for threaded rod

An all steel internally threaded anchor, giving a permanent anchorage point in solid concrete, brick or masonry. For use with machine bolts and threaded rod.

Product Advantages

- Lipped anchor body version keeps anchor flush (zinc plated only)
- Available in carbon steel and stainless steel AISI 316(A4)
- Expander slots allow for fast setting and superior performance
- Cone insert that expands the anchor when driven with setting tool and hammer
- Easy depth inspection keeps threaded rod drop lengths consistent
- Retainer lip to keep anchor flush with surface keeping all rods the same length
- Below surface setting for easy patch work
- Shallow embedment
- Visual expansion check with setting tool
- Can be used with all types of bolts, screws and studs

Substrates

- Concrete
- Brick
- Masonry

Applications

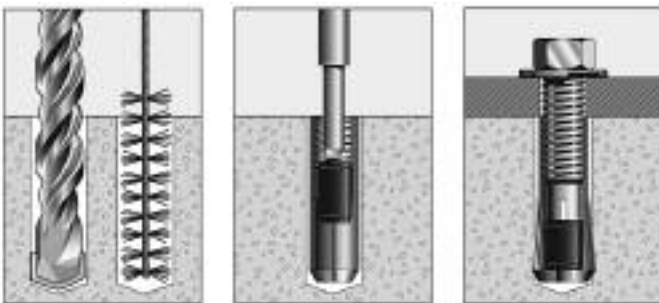
- Mechanical and electrical services
- Suspension systems (ceilings)
- Cable trays
- Signs
- Hand rails



Specification

DynaSet™ may be set just below the surface or flush to the surface. The correct setting tool should be used to guarantee full expansion of the anchor body

Installation



1. Drill the correct diameter hole to the required depth for the DynaSet™ selected.
2. Clean the hole with a blow out bulb.
3. Push the anchor into the hole.
4. Insert the relevant setting tool of the same diameter as the anchor until it makes contact with the plug. Use a hammer to drive the setting tool into the anchor - stop hammering when the expander shoulder rests against the anchor or when it is blocked (in hard concrete).
5. Tighten to the recommended torque using a torque wrench.

MEDIUM DUTY ANCHORS

DynaSet™ Drop-in Anchors - Zinc Plated - Standard



| Part No | Thread Ø | Thread Length | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Setting Tool (mm) | Order Qty |
|---------|-------------|------------------|----------------------------------|-------------------|---------------------------|-------------------------|--------------|
| DSM06 | M6 | 11 | 25 | 8 | 28 | SETDS1 | 100 |
| DSM08 | M8 | 13 | 30 | 10 | 33 | SETDS2 | 100 |
| DSM10 | M10 | 16 | 40 | 12 | 43 | SETDS3 | 50 |
| DSM12 | M12 | 21 | 50 | 16 | 53 | SETDS4 | 25 |
| DSM16 | M16 | 28 | 65 | 20 | 68 | SETDS5 | 20 |
| DSM20 | M20 | 35 | 80 | 24 | 83 | SETDS6 | 10 |

DynaSet™ Drop-in Anchors - Zinc Plated - Flanged



| Part No | Thread Ø | Thread Length | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Setting Tool (mm) | Order Qty |
|---------|-------------|------------------|----------------------------------|-------------------|---------------------------|-------------------------|--------------|
| DSF06 | M6 | 11 | 25 | 8 | 28 | SETDS1 | 100 |
| RAP06* | M6 | 11 | 25 | 8 | 28 | SETDS1 | 500 |
| DSF10 | M10 | 14 | 30 | 12 | 30 | SETDF3 | 100 |
| RAP01* | M10 | 14 | 30 | 12 | 43 | SETDF3 | 500 |
| DSF12 | M12 | 21 | 50 | 16 | 53 | SETDS4 | 100 |
| RAP012* | M12 | 21 | 50 | 16 | 53 | SETDS4 | 250 |

* Rod Anchoring Pack (RAP) includes setting tool in a handy carry bucket

DynaSet™ Drop-in Anchors - Indicative Working Loads in 32MPa Concrete

| Thread Ø | Embed Depth (mm) | Torque (Nm) | Min Anchor Spacing (mm) | Min Edge Distance (mm) | Max Shear Load (kN)* | Max Tensile Load (kN)* |
|-------------|------------------------|----------------|-------------------------------|------------------------------|-------------------------|---------------------------|
| M6 | 23 | 6 | 60 | 80 | 2.2 | 2.8 |
| M8 | 28 | 10 | 70 | 100 | 2.9 | 3.8 |
| M10 | 38 | 20 | 95 | 135 | 3.5 | 6.0 |
| M12 | 48 | 40 | 120 | 170 | 6.6 | 8.5 |
| M16 | 63 | 95 | 160 | 220 | 10.4 | 11.2 |
| M20 | 78 | 180 | 195 | 275 | 13.1 | 17.5 |

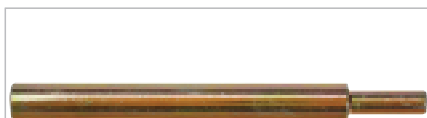
*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

DynaSet™ Drop-in Anchors - Stainless Steel AISI 316(A4)



| Part No | Thread Ø | Thread Length (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Setting Tool | Order Qty |
|---------|-------------|--------------------------|----------------------------------|-------------------|---------------------------|-----------------|--------------|
| DSM06SS | M6 | 11 | 25 | 8 | 28 | SETDS1 | 100 |
| DSM08SS | M8 | 13 | 30 | 10 | 33 | SETDS2 | 100 |
| DSM10SS | M10 | 16 | 40 | 12 | 43 | SETDS3 | 50 |
| DSM12SS | M12 | 21 | 50 | 15 | 53 | SETDS4 | 50 |
| DSM16SS | M16 | 28 | 60 | 20 | 68 | SETDS5 | 25 |

DynaSet™ Setting Tools - Stainless Steel AISI 316(A4)



| Part No | Description | Suits | Order Qty |
|---------|-----------------------|---------------------|--------------|
| SETDS1 | M6 x 25 Setting Tool | DSM06/DSF06/DSM0655 | 1 |
| SETDS2 | M8 x 30 Setting Tool | DSM08/DSM0855 | 1 |
| SETDS3 | M10 x 40 Setting Tool | DSM10/DSM1055 | 1 |
| SETDF3 | M10 x 30 Setting Tool | DSF10 | 1 |
| SETDS4 | M12 x 50 Setting Tool | DSM12/DSF12/DSM1255 | 1 |
| SETDS5 | M16 x 65 Setting Tool | DSM16/DSM1655 | 1 |
| SETDS6 | M20 x 80 Setting Tool | DSM20 | 1 |

Safety Ring Anchor System



| Part No | Thread Ø | Internal Ring Diameter (mm) | Overall Length (mm) | For use only with | Setting Tool | Order Qty |
|-----------------------|-------------|-----------------------------------|---------------------------|----------------------|-----------------|--------------|
| RSR12GM(Gal) | M12 | 16 | 138 | DSM12SS | SETSA4 | 4 |
| RSR12SS(AISI 316(A4)) | M12 | 16 | 138 | DSM12SS | SETSA4 | 4 |

NOTE: When installed in accordance with Ramset™ specifications, anchor performance is fully compliant with AS/NZS1891.4:2000 "Industrial fall-arrest systems and devices".

*Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data

Notes

[illegible]

RamPlug™ Anchors



Substrates

- Concrete
- Stone
- Solid block
- Solid brick
- Lightweight concrete (AAC) block

Applications

- Wall plates
- Sole plates
- Battens
- Door and window frames

Long expansion copes with hollow brickwork

Available in a variety of configurations, the RamPlug™ Anchor provides a medium duty screw anchoring point into concrete, hollow brick and for light duty applications in lightweight concrete.

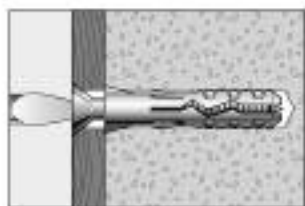
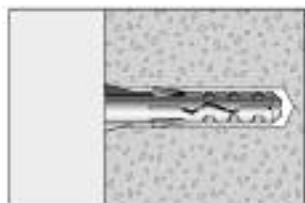
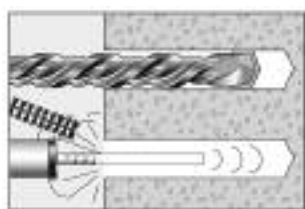
Product Advantages

- Anti rotation barbs prevent the anchor from rotating in the hole
- Nylon sleeve reduces cold bridging compared with metal fixings
- Countersunk sleeve and screw allows flush finish
- Zinc plated drive screw for corrosion resistance (dry internal use)
- Nylon sleeve assists shear capacity
- Through fixing lowers in place cost

Specification

The RamPlug™ Anchor is a light duty, rotation setting interference fit anchor

Installation



1. Drill a hole of the correct diameter through the fixture to the minimum drilling depth given in the technical data table, blow out dust. If the fixture thickness is less than the maximum given in the table below, the hole depth has to be increased accordingly.
2. Position the anchor in the hole through the fixture using light hammer blows until the collar of the anchor makes contact with the part to be fixed.
3. Tighten using a screwdriver until the head of the screw is flush with the collar of the anchor.

LIGHT DUTY ANCHORS

RamPlug™ Anchors - Standard



| Part No | Anchor Diameter (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Screw Gauge | Order Qty |
|---------|-------------------------|-------------------------------|-------------------------------|----------------|------------------------|-------------|-----------|
| DNP05 | 5 | - | 25 | 5 | 30 | 5 - 7 | 100 |
| DNP06 | 6 | - | 30 | 6 | 40 | 6 - 9 | 100 |
| DNP07 | 7 | - | 30 | 7 | 40 | 9 - 12 | 100 |
| DNP08 | 8 | - | 40 | 8 | 50 | 10 - 14 | 100 |
| DNP10 | 10 | - | 50 | 10 | 60 | 14 - 18 | 50 |
| DNP12 | 12 | - | 60 | 12 | 75 | 18 - 24 | 25 |

* Screw not supplied

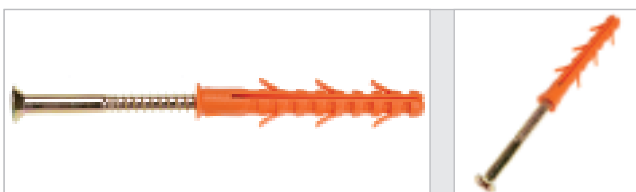
RamPlug™ Anchors - Long Plug



| Part No | Anchor Diameter (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Screw Gauge | Order Qty |
|---------|-------------------------|-------------------------------|-------------------------------|----------------|------------------------|-------------|-----------|
| DLP06 | 6 | - | 60 | 6 | 70 | 6 - 9 | 100 |
| DLP08 | 8 | - | 80 | 8 | 90 | 10 - 14 | 100 |
| DLP10 | 10 | - | 80 | 10 | 90 | 14 - 18 | 50 |

* Screw not supplied

RamPlug™ Anchors - Ultra Long plug



| Part No | Anchor Diameter (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Head Style | Order Qty |
|-----------|-------------------------|-------------------------------|-------------------------------|----------------|------------------------|-------------|-----------|
| DUP10080F | 10 | 10 | 80 | 10 | 90 | Countersunk | 25 |
| DUP10080H | 10 | 10 | 80 | 10 | 90 | Hex | 25 |
| DUP10100F | 10 | 10 | 100 | 10 | 110 | Countersunk | 25 |
| DUP10100H | 10 | 10 | 100 | 10 | 110 | Hex | 25 |
| DUP10135F | 10 | 45 | 135 | 10 | 145 | Countersunk | 25 |
| DUP10135H | 10 | 45 | 135 | 10 | 145 | Hex | 25 |
| DUP10160F | 10 | 70 | 160 | 10 | 170 | Countersunk | 25 |
| DUP10160H | 10 | 70 | 160 | 10 | 170 | Hex | 25 |

* Supplied complete with screws

EasyDrive™ Nylon Anchors



Suitable Substrates

- Concrete
- Stone
- Solid block
- Solid brick

Pre-expansion design guarantees correct installation

Nylon expansion anchors for use in solid concrete and masonry. Available in two configurations, the ED style being a removable anchor, incorporating a collapsible sleeve design, allowing for a positive pull-down of fixture. Both anchor types available with a steel zinc plated or stainless steel expansion screw nail.

Product Advantages

- The innovative design ensures the product can be hammered all the way into the hole without pre-expansion
- Countersunk sleeve protects the item being fixed for 8mm diameter
- Demountable
- Wide collar ensures tight fixing
- Saw tooth thread making it easy to drive in and unscrew
- Through fixing lowers in place costs

Applications



- Drywall track and brackets
- Electrical installations
- Insulation supports
- Battens / sole plates
- Conduit clips
- Boxes
- Trunking
- Metal lathe (with washer)
- Brick ties
- Skirting boards
- Computer floor pedestals
- Brackets
- Metal frames
- Collars

Installation

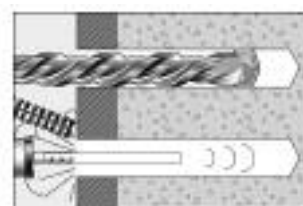
1. Drill a hole through the part to be fixed according to the diameter of the fixing, blow out dust. If the fixture thickness is less than the maximum given in the table below, the hole depth has to be increased accordingly.

Then either...

2. Insert the anchor by hand as deep as possible.
3. Tap on the expansion nail to obtain the complete setting of the anchor and until the head of the nail comes into contact with the flange of the sleeve.

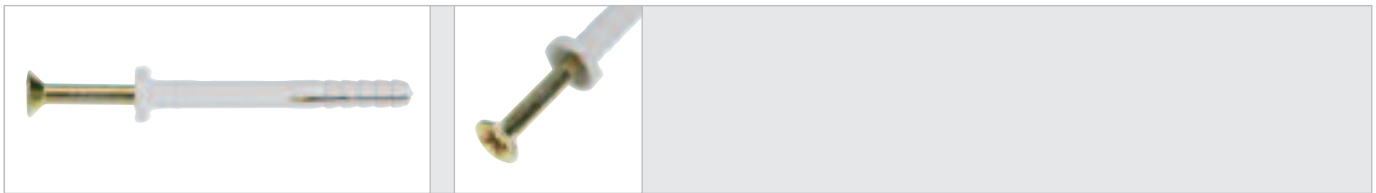
or...

2. Inserting the anchor by hand until contact of the flange with the part to be fixed.
3. Expand by screwing with a screw driving machine and suitable pozidrive bit.



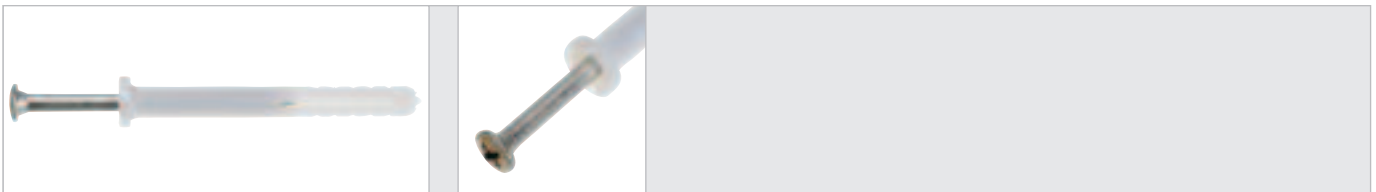
LIGHT DUTY ANCHORS

Product Range - EasyDrive™ Nylon Anchors - Zinc Plated Drive Screw



| Part No | Anchor Diameter (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Order Qty |
|---------|----------------------|----------------------------|----------------------------|-------------|---------------------|-----------|
| ED05033 | 5 | 6 | 33 | 5 | 40 | 100 |
| ED05050 | 5 | 20 | 50 | 5 | 45 | 100 |
| ED06042 | 6 | 12 | 42 | 6 | 50 | 100 |
| ED06055 | 6 | 25 | 55 | 6 | 50 | 100 |
| ED06075 | 6 | 40 | 70 | 6 | 50 | 100 |
| ED08080 | 8 | 30 | 75 | 8 | 80 | 50 |
| ED08120 | 8 | 75 | 120 | 8 | 95 | 50 |

Product Range - EasyDrive™ Nylon Anchors - Stainless Steel AISI 316(A4) Drive Screw



| Part No | Anchor Diameter (mm) | Max Fixture Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Min Hole Depth (mm) | Order Qty |
|-----------|----------------------|----------------------------|----------------------------|-------------|---------------------|-----------|
| ED05033SS | 5 | 6 | 33 | 5 | 40 | 100 |
| ED06042SS | 6 | 12 | 42 | 6 | 50 | 100 |
| ED06055SS | 6 | 25 | 55 | 6 | 50 | 100 |
| ED06075SS | 6 | 40 | 70 | 6 | 50 | 100 |

ShureDrive™ Anchors



Fast all metal hammer fixing

An all metal hammer in expansion anchor providing a tamper resistant anchor into solid concrete and masonry.

Product Advantages

- Visible proof that the anchor is fully set, when the head of the nail sits flush with the top of the anchor
- Quick through fixing
- Positive expansion by nail
- Large flange to prevent pullout
- Resistant to vandalism

Substrates

- Concrete
- Solid block
- Solid brick
- Stone

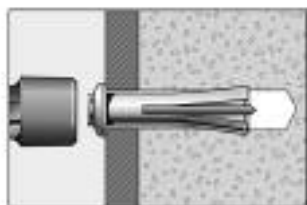
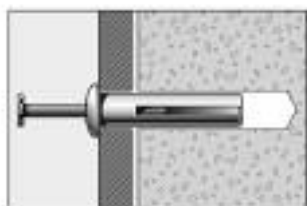
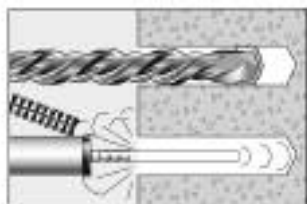
Applications



- Suspended ceilings
- Switchboards
- Pipework
- Trunking
- Signs
- Notices
- Drylining track and brackets
- Frames
- Ventilation ducts
- Partitioning
- Brick ties

NB. Shuredrive™ All Metal Hammer-in Anchor must not be used for top fix and overhead applications.

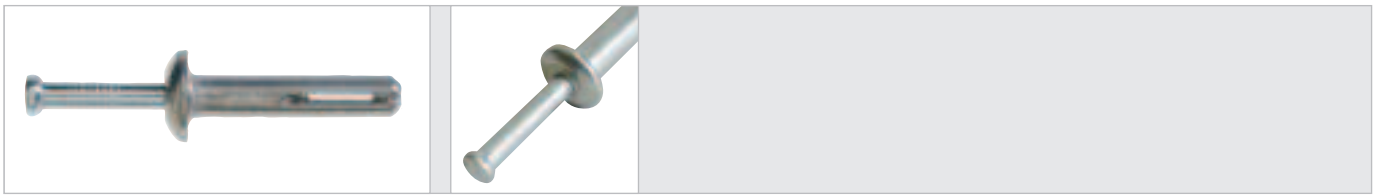
Installation



1. Drill a hole according to the dimensions indicated, blow out dust.
2. Insert anchor fully into the hole.
3. Hammer set to install.

LIGHT DUTY ANCHORS

ShureDrive™ Anchors



| Part No | Anchor Diameter (mm) | Anchor Length (mm) | Max Fixture Thickness (mm) | Head Diameter (mm) | Hole Depth (mm) | Fixture Hole Diameter (mm) | Order Qty |
|-----------|----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------|----------------------------------|--------------|
| SDM05022 | 5 | 22 | 3 | 11 | 30 | 6 | 100 |
| SDM06030# | 6 | 30 | 5 | 13 | 35 | 7 | 100 |
| SDM06050 | 6 | 50 | 25 | 13 | 55 | 7 | 100 |

Also available in stainless steel

Hollow Wall Anchors



Suitable Substrates

- Hollow block
- Hollow floor slab
- Hollow brick
- Plasterboard

Pre-assembled cavity fixing

- Flush finish, low profile head.
- Anti rotation barbs on head flange.
- Collapsing legs with integral nut.
- Can be set with a setting tool.

Product Advantages

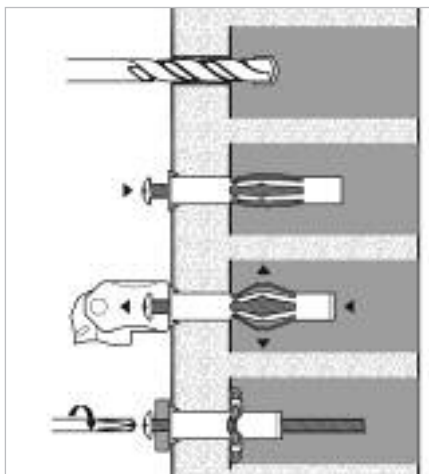
- Flush finish low profile head
- Large flange prevents pull into base material
- Anti rotation barbs prevent spinning in the hole
- Can be set with a setting tool or by using a screwdriver for smaller sizes
- 5 expansion legs give full support (M5 and M6)
- Expanded by special tool or screwdriver

Applications



- Bathroom fixtures
- Kitchen fixtures
- Shelving brackets
- Ceiling fixtures

Installation



1. Drill the recommended sized hole through the material then tap the anchor into the hole until it is flush with the surface.
2. Attach anchor setting tool to screw and expand the anchor. Small sizes may be set using a screwdriver.
3. Remove the screw and place through the hole in the fixture then back into the hollow wall anchor and tighten the screw.

LIGHT DUTY ANCHORS

Product Range - Hollow Wall Anchor



| Part No | Thread Size | Wall Thickness (mm) | Hole Ø (mm) | Order Qty |
|---------|----------------------------|------------------------|----------------|--------------|
| HW05M4 | M4 | 0 - 5 | 8 | 100 |
| HW10M4 | M4 | 6 - 10 | 8 | 100 |
| HW10M4P | M4 | 6 - 10 | 8 | 100 |
| HW13M4 | M4 | 8 - 13 | 8 | 100 |
| HW24M4 | M4 | 16 - 24 | 8 | 100 |
| HW38M4 | M4 | 34 - 38 | 8 | 100 |
| HW14M5 | M5 | 8 - 13 | 9 | 100 |
| HW16M6 | M6 | 6 - 16 | 13 | 100 |
| SETHWG | Hand Gun Type Setting Tool | | | 1 |

ANCHOR TECHNOLOGY

WallMate™, ToggleMate™, Utility Hook and RamToggle™



The original self drilling plasterboard anchor

- Self drilling.
- Self clamping of anchor.
- Screw can be replaced without losing anchor.

Product Advantages

- High-strength body
- A range of fixings for different applications
- Positive tightening of the anchor
- No need for pre-drilling
- Corrosion resistant
- Point breaks away if an over long screw has been used
- Removable
- Head sits flush behind fixture
- Low profile head
- Screw thread profile designed for efficient cutting and ensures positive lock
- No maximum or minimum plasterboard thickness

Suitable Substrates

Plasterboard - Dry partition walls
Aerated concrete (with predrilled hole
Ø 8mm)

Applications

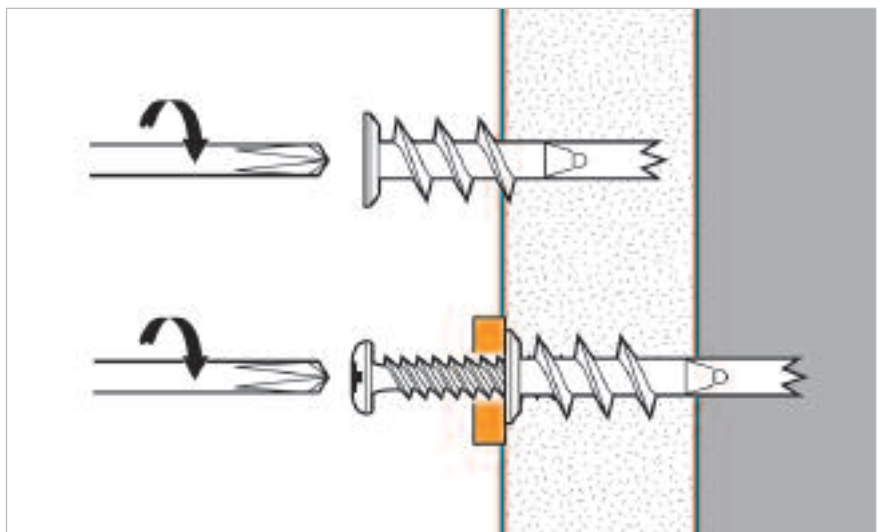


- Bathroom accessories
- Fuse boxes
- Bracketry
- Signage
- Mirrors
- Dado Rails

Installation

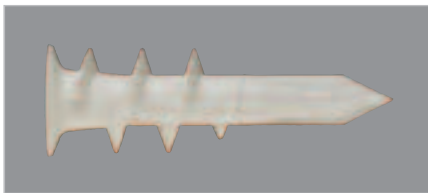
1. Using a Ph#2 screwdriver place fixing point against the plasterboard.
2. Screw the fixing into the plasterboard until the fixing is flush with the plasterboard surface.
3. Offer up item to be fixed.
4. Using a screw, screw into the body to achieve fix.

Installation for WallMate™.



LIGHT DUTY ANCHORS

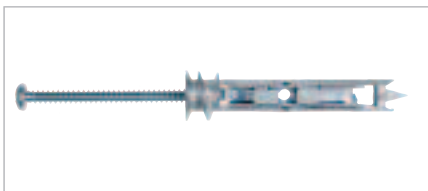
WallMate™ - Original Self Drilling Plasterboard Anchor



| Part No | Anchor Length (mm) | Min Screw Length (mm) | Drill Diameter* (mm) | Screw Gauge | Body Type | Order Qty |
|---------|--------------------|-----------------------|----------------------|-------------|-----------|-----------|
| WMZ | 42 | 20 | 8 | 6-7 | Metal | 100 |
| WM25 | 42 | 20 | 8 | 6-7 | Nylon | 100 |

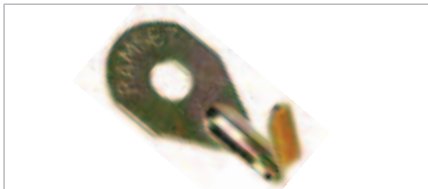
* For pre-drilling into aerated concrete

ToggleMate™ - Plasterboard Anchor



| Part No | Anchor Length (mm) | Min Screw Length (mm) | Drill Diameter* (mm) | Screw Gauge | Body Type | Order Qty |
|---------|--------------------|-----------------------|----------------------|-------------|-----------|-----------|
| TM16 | 42 | 20 | 8 | 8 | Metal | 50 |

Utility Hook - Metal Multipurpose Hook



| Part No | Hole Ø (mm) | Hook Length (mm) | Order Qty |
|---------|-------------|------------------|-----------|
| THH6800 | 6 | 30 | 50 |

RamToggle™ - Light Duty Nylon Cavity Fastener



| Part No | Hole Ø (mm) | Screw Gauge | Wall Thickness (mm) | Order Qty |
|---------|-------------|-------------|---------------------|-----------|
| RT10 | 8 | 6-8 | 5-10 | 100 |
| RT12 | 8 | 6-8 | 8-12 | 100 |
| RT16 | 8 | 6-8 | 12-18 | 100 |

RediDrive™ Hammer-In Anchors



One piece hammer in anchor

A one piece all steel hammer in anchor for permanent tamper proof anchoring into solid concrete.

Product Advantages

- Fast installation as anchor is simply hammered in
- Secure and tamper resistant
- Flush finish due to mushroom head

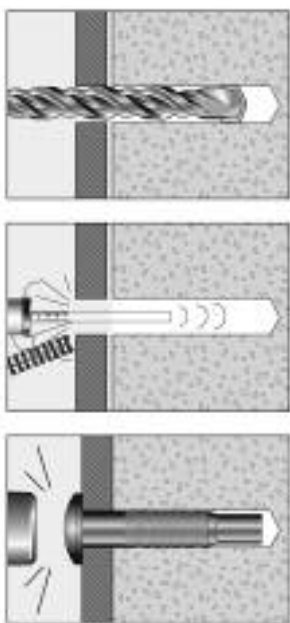
Substrates

- Concrete

Applications

- Conduit and pipework
- Window frames
- Battens
- Fire Collars

Installation



1. Drill 5mm diameter hole to correct depth using fixture as template.
Clean thoroughly with brush
2. Remove debris by way of vacuum or hand pump etc.
3. Insert dog point into hole through fixture and strike head of anchor using mash hammer until head is flush with surface

RediDrive™ Hammer-In Anchors



| Part No | Anchor Diameter (mm) | Overall Length (mm) | Max Fixture Thickness (mm) | Fixture Hole Diameter (mm) | Min Hole Depth (mm) | Order Qty |
|---------|----------------------|---------------------|----------------------------|----------------------------|---------------------|-----------|
| RD05030 | 5 | 30 | 5 | 6.5 | 40 | 100 |
| RD05040 | 5 | 40 | 15 | 6.5 | 47 | 100 |
| RD05050 | 5 | 50 | 20 | 6.5 | 47 | 100 |
| RD05065 | 5 | 65 | 35 | 6.5 | 57 | 100 |
| RD05075 | 5 | 75 | 45 | 6.5 | 52 | 100 |

LIGHT DUTY ANCHORS

Nylon Anchors



Light duty nail expanding anchor

Nylon anchors are a multiple style headed nylon anchor with a steel zinc plated or stainless steel expansion screw nail.

Product Advantages

- Multiple style heads for versatility
- Small diameter hole for discreet fixings
- Fully assembled through fixing
- Nylon body provides insulation between expander nail and work surface

Substrates

- Concrete
- Solid Brick
- Hollow Block

Applications

- Signs
- Conduit brackets
- Down pipes
- Partition boards

Nylon Anchor - Mushroom Head

| Part No | Anchor Size (mm) | Anchor Length (mm) | Hole Ø (mm) | Hole Depth (mm) | Max Fixture Thickness (mm) | Order Qty |
|---------|------------------|--------------------|-------------|-----------------|----------------------------|-----------|
| TNM320 | 5 | 20 | 5 | 25 | 2 | 100 |
| TNM325# | 5 | 25 | 5 | 30 | 5 | 100 |
| TNM425# | 6.5 | 25 | 6.5 | 30 | 5 | 100 |
| TNM438 | 6.5 | 38 | 6.5 | 40 | 13 | 100 |
| TNM450 | 6.5 | 50 | 6.5 | 45 | 25 | 100 |
| TNM475 | 6.5 | 75 | 6.5 | 55 | 50 | 100 |

Available with stainless steel expansion nail. Add SS to end of Part No.

Nylon Anchor - Round Head

| Part No | Anchor Size (mm) | Anchor Length (mm) | Hole Ø (mm) | Hole Depth (mm) | Max Fixture Thickness (mm) | Order Qty |
|---------|------------------|--------------------|-------------|-----------------|----------------------------|-----------|
| TNR325# | 5 | 25 | 5 | 30 | 5 | 100 |
| TNR338 | 5 | 38 | 5 | 40 | 13 | 100 |
| TNR425 | 6.5 | 25 | 6.5 | 30 | 5 | 100 |
| TNR438 | 6.5 | 38 | 6.5 | 40 | 13 | 100 |
| TNR450 | 6.5 | 50 | 6.5 | 45 | 25 | 100 |

Available with stainless steel expansion nail. Add SS to end of Part No.

Nylon Anchor - Countersunk Head

| Part No | Anchor Size (mm) | Anchor Length (mm) | Hole Ø (mm) | Hole Depth (mm) | Max Fixture Thickness (mm) | Order Qty |
|---------|------------------|--------------------|-------------|-----------------|----------------------------|-----------|
| TNF425 | 6.5 | 25 | 6.5 | 30 | 5 | 100 |
| TNF438 | 6.5 | 38 | 6.5 | 40 | 13 | 100 |
| TNF450 | 6.5 | 50 | 6.5 | 45 | 25 | 100 |
| TNF475 | 6.5 | 75 | 6.5 | 55 | 50 | 100 |

Nylon Anchor - Flat Head

| Part No | Anchor Size (mm) | Anchor Length (mm) | Hole Ø (mm) | Hole Depth (mm) | Max Fixture Thickness (mm) | Order Qty |
|---------|------------------|--------------------|-------------|-----------------|----------------------------|-----------|
| TNL325 | 5 | 25 | 5 | 30 | 5 | 100 |

Plastic Plugs



Low cost, low load plastic plug

An inexpensive traditional expansion plug for use with screws.

Product Advantages

- Colour coded indicating the plug size
- Inexpensive
- Corrosion resistant
- Light weight

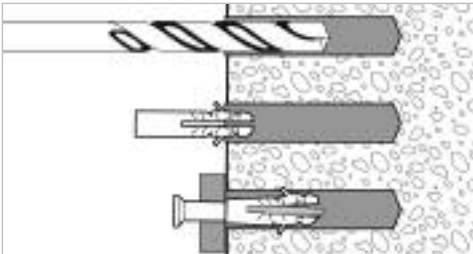
Suitable Substrates

- Concrete
- Hollow block
- Solid brick
- Hollow block
- Solid block
- Hollow brick

Applications

- Curtain hooks
- Small brackets
- And many other light duty fixings

Installation



1. Drill hole in substrate.
2. Insert fixing into the hole.
3. Using a screwdriver screw the screw through fixture into fixing until fix has been achieved.

Plastic Plugs (Poly Bag)



| Part No | Colour | Hole Ø (mm) | Plug Length (mm) | Order Qty |
|---------|--------|-------------------|------------------------|--------------|
| 464224 | White | 5 | 25 | 100 |
| 464286 | Red | 6 | 25 | 100 |
| 464347 | Red | 6 | 38 | 100 |
| 464408 | Green | 7 | 25 | 100 |
| 464460 | Green | 7 | 38 | 50 |
| 464491 | Green | 7 | 50 | 50 |

LIGHT DUTY ANCHORS

Plastic Plugs (Frame Packs)



| Part No | Colour | Hole Ø (mm) | Plug Length (mm) | Order Qty |
|---------|--------|-------------------|------------------------|--------------|
| WPWH25 | White | 5 | 25 | 1,000 |
| WPRD25 | Red | 6 | 25 | 1,000 |
| WPRD32 | Red | 6 | 32 | 1,000 |
| WPRD38 | Red | 6 | 38 | 1,000 |
| WPRD50 | Red | 6 | 50 | 1,000 |
| WPGR25 | Green | 7 | 25 | 1,000 |
| WPGR32 | Green | 7 | 32 | 1,000 |
| WPGR38 | Green | 7 | 38 | 500 |
| WPGR50 | Green | 7 | 50 | 500 |
| WPBU38 | Blue | 8 | 38 | 500 |
| WPBU50 | Blue | 8 | 50 | 500 |

Plastic Plugs (Roll)



| Part No | Colour | Hole Ø (mm) | Plug Length (metres) | Order Qty |
|---------|--------|-------------------|----------------------------|--------------|
| 720115 | Red | 6 | 100 | 1 |
| 720122 | Green | 7 | 100 | 1 |
| 720139 | Blue | 8 | 100 | 1 |

Plastic Spaghetti



| Part No | Colour | Hole Ø (mm) | Plug Length (metres) | Order Qty |
|---------|--------|-------------------|----------------------------|--------------|
| 463609 | - | 5 | 5 | 1 |
| RSP | - | 5 | 50 | 1 |

TruFast™ Suspension Anchor



Ideal for fixing suspended ceilings

A one piece all metal load assisted suspension anchor.

Product Advantages

- Self expanding suspension anchor
- Improved fire resistance compared with plastic anchors

Suitable Substrates

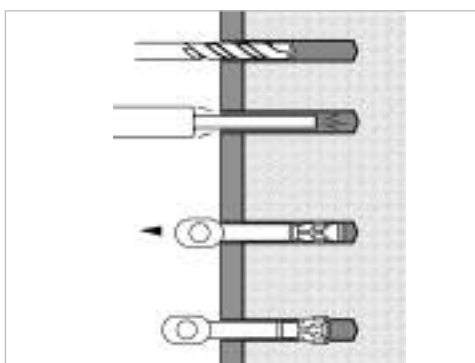
- Concrete

Applications



- Fixing cables for suspended ceiling applications

Installation



1. Drill a 6mm hole to the drilling depth given in the product range table.
2. Clean hole with hand pump.
3. Position the anchor in the hole. Tap in until the anchor can go no further.
4. Setting of the anchor can be achieved using the claw of a claw hammer.

TruFast™ Suspension Anchor

| Part No | Anchor Diameter (mm) | Anchor Length (mm) | Eye Diameter (mm) | Min Hole Depth (mm) | Order Qty |
|---------|----------------------|--------------------|-------------------|---------------------|-----------|
| TFE06 | 6 | 55 | 6.5 | 45 | 100 |

Catenary Wire Eye

| Part No | Anchor Diameter (mm) | Anchor Length (mm) | Eye Diameter (mm) | Min Hole Depth (mm) | Order Qty |
|----------|----------------------|--------------------|-------------------|---------------------|-----------|
| CWE05040 | 5 | 40 | 7 | 40 | 100 |

Vertical Flange Clip



Simple, quick and easy

Vertical Flange Clip for "C" section purlins.

Product Advantages

- Series of strong barbs grip the flange
- Angle trim may, for suspended ceilings, be bolted through the larger hole using M6 bolts

Suitable Substrates

- Steel

Applications

- Fixing of cable to steel purlins
- Fixing lighting systems to steel profiles
- Fixing suspended ceilings to steel profiles

Installation

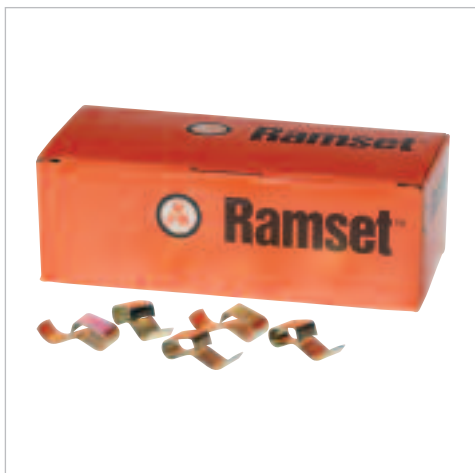
1. Place hook profile over the vertical of the purlin.
2. Tap into place with a hammer.
3. Connect drop wire or chains through the "eye" of the clip.



Vertical Flange Clip

| Part No | Description | Flange Thickness (mm) | Small Drilled Hole Diameter (mm) | Order Qty |
|---------|-------------------------|-----------------------|----------------------------------|-----------|
| VF1 | For Flanges 1.6 - 2.5mm | 7 | 3 | 100 |

DynaClip™ - Spring Steel Clips



Simple, quick and easy

DynaClip™ spring steel clip system for quick simple attachment of conduit and cables to steel.

Product Advantages

- All steel (Fire Resistant)
- Simple to attach

Suitable Substrates

- Steel

Applications

- Fixing of cable to steel purlins
- Fixing lighting systems to steel profiles
- Fixing suspended ceilings to steel profiles

Installation

1. Place hook profile over the horizontal of the purlin.
2. Tap into place with a hammer.

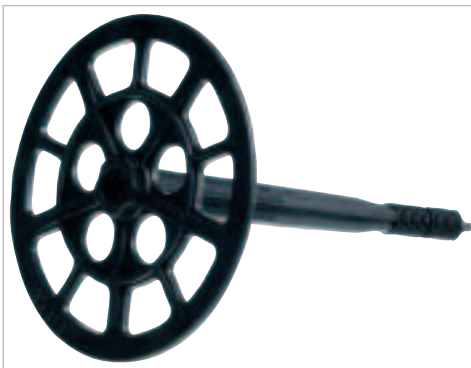


DynaClip™

| Part No | Description | Flange Thickness | Order Qty |
|---------|----------------------|------------------|-----------|
| DK10 | For Cables 6 - 10mm | 2.0 - 8.0 | 100 |
| DK20 | For Cables 16 - 20mm | 2.0 - 10.0 | 100 |
| DK32 | For Cables 25 - 32mm | 2.0 - 10.0 | 100 |

LIGHT DUTY ANCHORS

InsulFast™ Drill Anchor



Substrates

- Concrete
- Stone
- Solid Block
- Solid Brick

Applications

- Insulation fixing

Fast Insulation Fixing

Available in a variety of lengths to suit the majority of insulation that is available. In conjunction with the DD528 and a belt adaptor, the InsulFast™ Drill Anchor becomes a fast and cost effective light duty anchoring system for fixing insulation.

Product Advantages

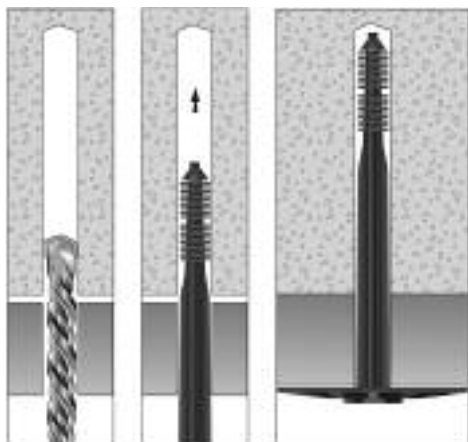
- Quick and easy to install through insulation
- Made of polypropylene for temperatures between -30°C to +80°C
- 90mm diameter head for secure fixing of a variety of insulation materials
- Best suited to rigid insulation such as expanded and extruded polystyrene

Specifications

The InsulFast™ drill anchor for insulation is a light duty hammer set interference fit anchor.

- Indicative tensile load when correctly installed in concrete is 10kg
- Indicative tensile load when correctly installed in solid brick is 8kg
- Indicative tensile load when correctly installed in stone or solid block is 6kg

Installation



1. Drill an 8mm hole through the insulation and a further 45mm into the substrate
2. Position the anchor in the hole through the fixture using light hammer blows until head of the anchor is in contact with the insulation and the insulation is firmly held against the substrate

InsulFast™ Drill Anchor - Standard

| Part No | Min./Max. Insulation Thickness (mm) | Overall Anchor Length (mm) | Hole Ø (mm) | Hole Depth (mm) | Order Qty |
|---------|---|----------------------------------|-------------------|-----------------------|--------------|
| CB5060 | 50/60 | 95 | 8 | 45 | 200 |
| CB7080 | 70/80 | 115 | 8 | 45 | 200 |
| CB90100 | 90/100 | 135 | 8 | 45 | 200 |

CONSTRUCTION CHEMICALS



SEALANTS



CONSTRUCTION CHEMICALS

Configuring Joints in Concrete Structures for Optimum Sealant Performance

General Details

Movement of joints in concrete structures is caused by:

- Changes in Temperature (Opening and Closing)
- Concrete Shrinkage (Opening)
- Concrete Creep (Closing)

The factors that cause joints to open are the most significant when optimising joint design for sealants.

Because joints move, sealants must be elastic and flexible to avoid splitting, tearing and loss of adhesion.

A sealant's flexibility is defined by its strain capacity, expressed as a percentage change in nominal joint width.

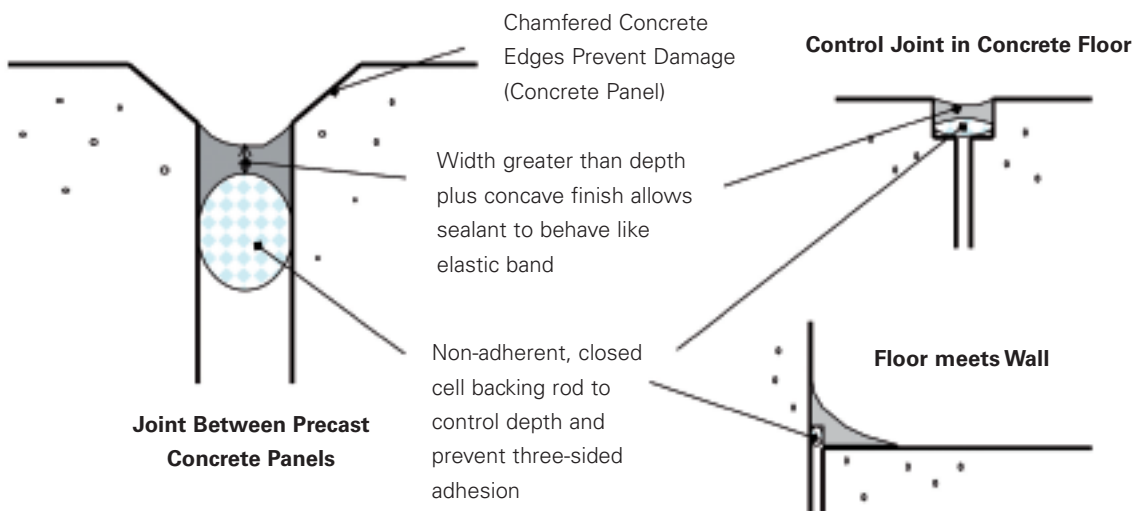
Joint Configuration

The shape of the sealant within a joint influences its ability to stretch with movement.

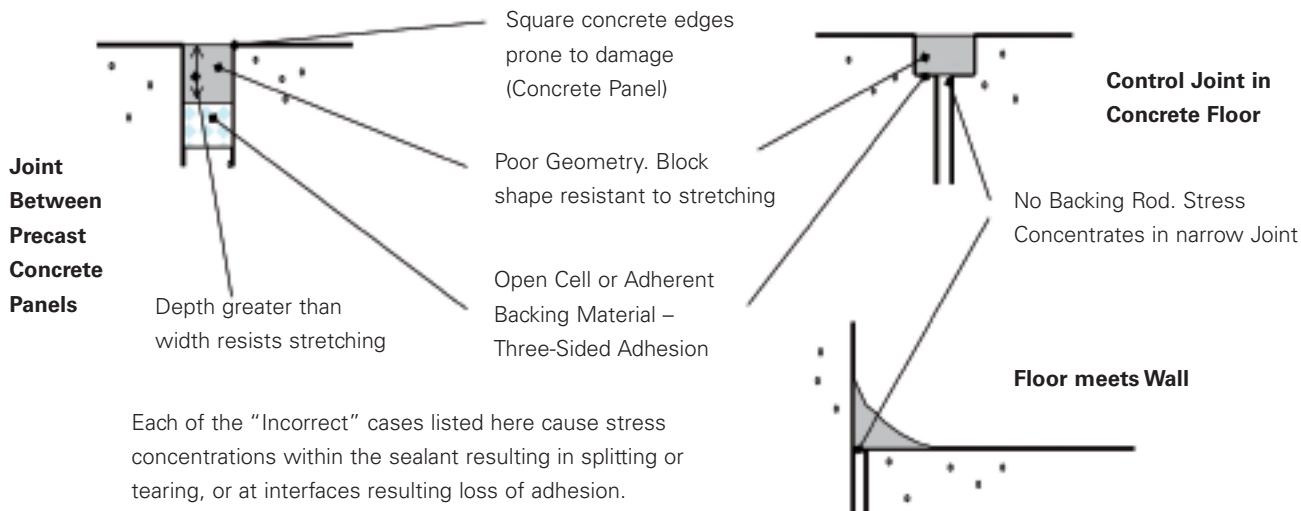
Correct Width to Depth Ratio

| Joint Width | Joint Depth |
|--------------|--------------------------------------|
| 6mm to 10mm | Equal to Joint Width |
| 10mm to 20mm | 10mm |
| 20mm to 50mm | Equal to $\frac{1}{2}$ x Joint Width |

Correct Joint Configuration



Incorrect Joint Configuration



Joint Design

Following is a simple, conservative method for calculating minimum joint width. For more accurate and rigorous treatment, consult the references listed below.

• Calculation of Joint Width:

Minimum Joint Width, $b_{min} = 100 / \text{Sealant Strain Capacity} \times \Sigma\Delta L \dots (1)$

$\Sigma\Delta L$ = Anticipated joint movement

$\Sigma\Delta L = \Delta L_t + \Delta L_{CS} \dots (2)$

ΔL_t = Change in Joint Width due to Temperature Change (mm)

ΔL_{CS} = Change in Joint Width due to Concrete Shrinkage (mm)

• Changes in Temperature

$\Delta L_t = L \times \alpha_{c,temp} \times \Delta T \dots (3)$

L = Joint Spacing (mm)

$\alpha_{c,temp}$ = Coefficient of Concrete Thermal Expansion (mm/mm°C)

ΔT = Change in Temperature (°C)

• Concrete Shrinkage

$\Delta L_{CS} = L \times \epsilon_{CS} \dots (4)$

L = Joint Spacing (mm)

ϵ_{CS} = Concrete Shrinkage Strain = 850×10^{-6} mm (Conservative. Refer AS3600 Clause 6.1.7 for accurate values)

In this simple method, effects that cause joints to close are ignored, as they do not impart tensile strain on the sealant. For example concrete creep and temperature increase cause joints to close resulting in compression of the sealant.

Worked Example:

Concrete Panel Width = $L = 4\text{m}$, Thickness = 150mm, Installation Temperature = 30°C, Minimum Temperature = 5°C.
Sealant = Ramset™ HiSeal™, Strain Capacity = $\pm 25\%$, $\alpha_{c,temp}$ = 12×10^{-6} mm/mm°C, $\epsilon_{CS} = 850 \times 10^{-6}$ mm

$\Delta L_t = 4 \times 1000 \times 12 \times 10^{-6} \times (30 - 5^\circ\text{C}) = 1.2 \text{ mm}$

$\Delta L_{CS} = 4 \times 1000 \times 850 \times 10^{-6} = 3.4 \text{ mm}$

$b_{min} = 100 / 25 \times (1.2 + 3.4) = 18.4 \text{ mm}$

| Sealant | Description | Strain Capacity |
|-----------------|---|-----------------|
| HiSeal™ | 1-Part Polyurethane Construction Sealant | $\pm 25\%$ |
| FyreBrake™ | 1-Part Polyurethane Fire Rated Sealant | $\pm 25\%$ |
| Roof Seal | 1-Part Neutral Cure Silicone Roofing Sealant | $\pm 25\%$ |
| Joint Seal | 1-Part Neutral Cure Silicone Construction Sealant | $\pm 25\%$ |
| Glass Seal | 1-Part Acetic Cure Silicone Glazing Sealant | $\pm 25\%$ |
| Water Seal | 1-Part Acetic Cure Silicone Mould Resistant Sealant | $\pm 25\%$ |
| BlazeBrake™ 201 | 1-Part Fire and Acoustic Rated Acrylic Sealant | $\pm 15\%$ |
| DynaSeal™ | 1-Part Urethane-Acrylic Construction Sealant | $\pm 20\%$ |
| Gap Seal | 1-Part Acrylic Painters Sealant | $\pm 6\%$ |

References

AS3600 – 2001, *Concrete Structures* Standards Australia

Precast Concrete Handbook National Precast Concrete Association Australia 2002

Warner et al 1998 *Concrete Structures*, Addison Wesley Longman Australia

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CONSTRUCTION CHEMICALS

Gap Seal



Gap Seal Flexible Gap Filler

Gap Seal paintable acrylic sealant is flexible to resist cracking when used to seal gaps and cracks prior to painting.

Product Advantages

- Resists cracking - flexible
- Paintable
- User Friendly – clean up with water
- User Friendly – low odour
- Easy to use – sag resistant

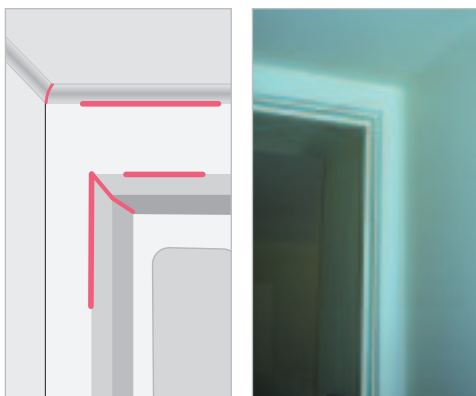
Substrates

- Plasterboard
- MDF
- Plywood
- Ceramic Tiles
- Laminated Plastics
- Stainless steel
- Aluminium
- Timber
- Fibre cement
- Concrete
- Brick

Overview

Gap Seal provides a neat and tidy finish around architraves, skirtings, chair and picture rails and is paintable with acrylic and oil based surface coatings.

Applications



- Sealing gaps and cracks in and around:
 - Window frames
 - Architraves
 - Skirting boards
 - Picture and chair rails.
- Sealing around vanities and baths
- Internal corners of walls
- Sealing cracks, joints and gaps where rigid fillers crack or fall out

Product Range - Gap Seal

| Part No. | Colour | Volume | Order Qty |
|------------|--------|-----------------|-----------|
| GPSLWHG450 | White | 300mL Cartridge | 20 |

Accessories

| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

Duct Seal



Duct Seal

Duct Seal is tough and flexible to prevent air leakage when used to seal lap joints in sheet metal ductwork.

Product Advantages

- Flexible and tough – resists blow-out
- Paintable
- Solvent Free
 - Low Odour
 - Zero VOC
 - Not flammable
 - User friendly
 - Clean up with water

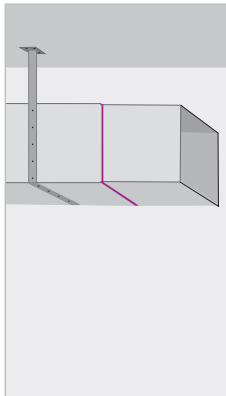
Substrates

- Galvanised Steel
- Aluminium

Overview

Duct Seal is a flexible sealant used for metal ductwork and metal joints. This water based acrylic sealant is suitable for sealing metal sheeting, airconditioning duct work and metal joints. Duct Seal prevents air leakage when used to seal lap joints in sheet metal duct work. It is made from low odour water borne acrylic polymer for user comfort.

Applications



Sealing sheet metal lap joints in duct work for:

- Air-conditioning
- Heating
- Low, medium and high velocities
- Interior / Exterior

Product Range - Duct Seal

| Part No. | Colour | Volume | Order Qty |
|----------|--------|-----------------|-----------|
| DSLWG450 | Grey | 300mL Cartridge | 20 |

Accessories



| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

CONSTRUCTION CHEMICALS

FyreBrake™ Fire and Acoustic Rated Polyurethane Construction Sealant



FyreBrake™

FyreBrake™ is a high performance, 1-part, 100% polyurethane construction sealant, which does not shrink, dry out or crack.

Substrates

- Plasterboard
- Fibre Cement Sheet
- Solid Concrete
- Brick
- Concrete Block
- Aluminium
- Steel

Approvals

- AS1530.4 – 2005
- TT-S-00230 C (Type II) Class A, Non-sag, One component
- ASTM C920 Type S, Grade NS, Class 25, Use-NT, Use-A, Use-M, Use-G, Use-O
- AAMA 808.3-92
- Suitable for achieving compliance with the BCA and the requirements for a AAAC Star rating of 5

Product Advantages

- **Fire Rated** to AS1530.4–2005 and AS4072.1-2005 (CSIRO Test Reports FS1202 and FS1203)
- **Acoustic Rating Rw (STC)** = 60 to BCA requirement (RMIT Test Report 1211/06-007/PD)
- **VOC Rated**
- **UV and Weather Resistant**
 - Excellent resistance to aging and weathering
- Permanently flexible
- Will not shrink or crack
- Thixotropic - No sagging or running
- Easy to dispense in cold weather
- Strong adhesion
- Excellent **flexibility** – joint movement $\pm 25\%$
- **Non-corrosive** neutral cure
- Paintable with acrylic based surface coatings

Overview

FyreBrake™ is 100% polyurethane for excellent adhesion and permanent flexibility. FyreBrake™ is fire and acoustic rated for sealing residential and office partitions, concrete block, Tilt-up and Precast concrete.

Applications



- Sealing expansion joints in
 - Tilt-up and precast concrete construction
 - Brick and concrete block work
- Office and residential partitions
- Perimeter sealing around window and doorframes
- Interior / Exterior

Product Range - FyreBrake™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|---------------|-----------|
| FYBRGYS | Grey | 600mL Sausage | 12 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|--------------------------------------|-------------------|-----------|
| SABGU37 | Sausage Barrel Gun | | 1 |
| BGUNS | Mixed Nozzle Set (pack of 5) | | 1 |
| BGUNOZ | Cone Nozzle Set Natural (pack of 10) | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

BlazeBrake™ Fire and Acoustic Rated Acrylic Construction Sealant



BlazeBrake™ Fire and Acoustic Rated Acrylic Construction Sealant

BlazeBrake™ is highly flexible to resist cracking making it ideal for acoustic and fire rated applications.

Product Advantages

- **Fire rated** according to AS1530.4-1990, BS476: Part 20:1987 and AS4072.1-1992
- **Acoustic Rated**
- **Flexible and crack resistant** – joint movement $\pm 15\%$
- Suitable for exterior use
- **User Friendly**
 - * Easy to dispense in cold weather.
 - * Low odour.
 - * Easy tooling
- * Water clean up
- * Sag Resistant
- **OH&S Friendly**
 - * Not HAZARDOUS – no isocyanates, no heavy metals, no solvents, no asbestos
 - * Zero VOC
- **Paintable** with acrylic coatings and oil-based coatings after 24 hours at 20°C

Substrates

- Concrete
- CSR Hebel® Aerated Autoclaved Concrete
- Concrete Block
- Plasterboard
- Fibre cement

Approvals

AS1530.4-1990 AS4072.1-1992

Overview

BlazeBrake™ is suitable for sealing around service penetrations through walls and floors to create a fire and acoustic barrier. The advanced, highly flexible acrylic polymer in BlazeBrake™ enables it to accommodate joint movement and resist cracking so that it maintains its fire and acoustic integrity. Fire rated up to 4 hours.

Applications



- Sealing gaps around pipes, cables, ducts and services, which penetrate fire rated walls and floors
- Sealing joints and penetrations in acoustic partitions and walls
- Sealing joints in Precast and Tilt-up construction
- Sealing vertical and exterior joints
- To prevent the spread of fire and smoke through walls and floors

Product Range - BlazeBrake™ 201 Fire Sealant

| Part No. | Colour | Volume | Order Qty |
|----------|--------|-----------------|-----------|
| BLBRGYC | Grey | 300mL Cartridge | 20 |
| BLBRGYS | Grey | 600 mL Sausage | 15 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|--------------------------------------|-------------------|-----------|
| CAGU300 | Caulking Gun | | 1 |
| SABGU37 | Sausage Barrel Gun | | 1 |
| BGUNS | Mixed Nozzle Set (pack of 5) | | 1 |
| BGUNOZ | Cone Nozzle Set Natural (pack of 10) | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

CONSTRUCTION CHEMICALS

DynaSeal™ Acrylic Construction Sealant



DynaSeal™ Sealant

DynaSeal™ is a flexible polyurethane / acrylic copolymer sealant for interior and exterior use.

Product Advantages

- User Friendly
 - * No Fumes
 - * Zero VOC
 - * Water Clean Up
 - * Easy Dispensing in Cold Weather
- Elastic and Flexible
 - Paintable with acrylic based surface coatings
 - Non-toxic
 - Easy tooling

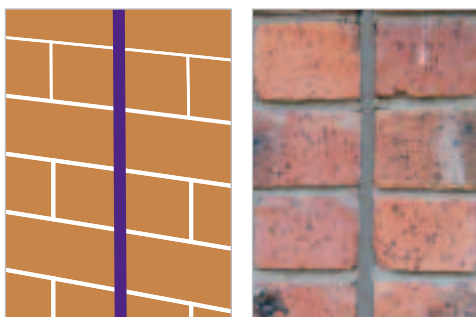
Substrates

- Timber
- Concrete
- Concrete Block
- Medium Density Fibreboard (MDF)
- Hardboard
- Particleboard
- Plywood
- Brick
- Plasterboard
- Fibre Cement Sheet
- Ceramic Tiles (unglazed edges)
- Laminate

Overview

DynaSeal™ Sealant is a flexible acrylic/urethane copolymer sealant for general joint sealing in building and construction applications. It is designed for internal and external conditions. DynaSeal™ Sealant provides a flexible, elastic seal in joints in interior fit-out and concrete, brick and concrete block-work construction.

Applications



- Sealing vertical exterior joints in Precast and Tilt-up panel construction.
- Perimeter sealing around architraves, skirting boards, picture and chair rails.
- Sealing around vanities and baths
- Sealing gaps in internal corners of tiled walls
- Perimeter sealing of timber door and window frames.
- Sealing gaps between façade and cladding panels to various building materials.
- Expansion joints in tiled walls.
- Sealing vertical expansion joints in brick and concrete block walls

Product Range - DynaSeal™ Sealant

| Part No. | Colour | Volume | Order Qty |
|------------|--------|-----------------|-----------|
| DYSLGYG450 | Grey | 300mL Cartridge | 20 |
| DYSLGYG900 | Grey | 600mL Sausage | 20 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|--------------------------------------|-------------------|-----------|
| CAGU300 | Caulking Gun | | 1 |
| SABGU37 | Sausage Barrel Gun | | 1 |
| BGUNS | Mixed Nozzle Set (pack of 5) | | 1 |
| BGUNOZ | Cone Nozzle Set Natural (pack of 10) | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

HiSeal™ Polyurethane Construction Sealant



HiSeal™ Sealant

HiSeal™ is a high performance, 1-part polyurethane construction sealant ideal where extra toughness and resistance to the elements is needed.

Product Advantages

- **UV and Weather Resistant**
 - Excellent resistance to aging and weathering
 - Permanently flexible
 - Will not shrink or crack
- High bond strength
- Thixotropic - No sagging or running
- Excellent **flexibility** – joint movement $\pm 25\%$
- Suitable for Acoustic Applications
- Suitable for contact with **drinking water – AS4020-1994**
- **Non-corrosive** neutral cure
- Paintable with acrylic based surface coatings
- AS1157-1972 **Fungus and mildew resistant**

Substrates

- Concrete and Cement
- Brick
- Concrete Block
- Aluminium
- Ceramic Tiles
- Laminate
- Stainless Steel
- Galvanised Steel
- Timber
- Particleboard
- MDF
- Plywood
- Plasterboard

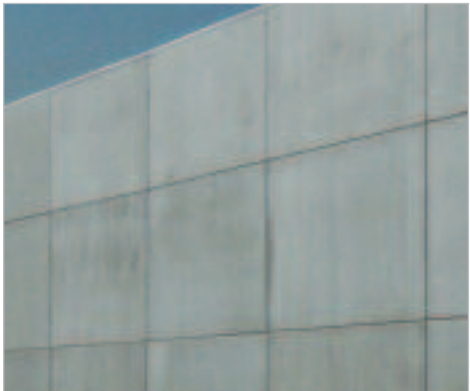
Approvals

AS4020–1994 Contact with drinking water
AS1157-1972 Fungus and mildew resistance

Overview

HiSeal™ is a high performance polyurethane sealant that provides a tough, elastic, UV resistant and weatherproof seal in exterior joints in concrete, brick and concrete block-work construction. Highly resistant to dynamic joint movement.

Applications



- Sealing expansion joints in
 - Tilt-up and Precast concrete construction
 - Brick and concrete block work
 - Tiled walls
 - In-situ concrete
- Perimeter sealing around window and door frames
- Interior / Exterior
- Office partitioning
- Shop fitting
- Tiled Walls
 - Internal corners
 - Expansion joints
- Wet-area fixtures (eg Baths, Sinks)
- Shower installations
- Splashbacks
- Architraves, skirting boards
- Façade Panels
- Sheet metal lap joints

Product Range - HiSeal™

| Part No. | Colour | Volume | Order Qty |
|------------|--------|---------------|-----------|
| HYSLGYG720 | Grey | 600mL Sausage | 20 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|--------------------------------------|-------------------|-----------|
| CAGU300 | Caulking Gun | | 1 |
| SABGU37 | Sausage Barrel Gun | | 1 |
| BGUNS | Mixed Nozzle Set (pack of 5) | | 1 |
| BGUNOZ | Cone Nozzle Set Natural (pack of 10) | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

CONSTRUCTION CHEMICALS

HiSeal TG™ Traffic Grade Polyurethane Construction Sealant



HiSeal TG™ Sealant

HiSealTG™ is a high performance, 2-part semi-pourable polyurethane construction sealant ideal for use in joints in horizontal concrete surfaces.

Product Advantages

- **Abrasion** resistant
- **UV and Weather Resistant**
 - Excellent resistance to aging and weathering
 - Permanently flexible
 - Will not shrink or crack
- Cures internally – Fast Cure Through
- Long working time
- **Non-corrosive** neutral cure
- Paintable with acrylic based surface coatings
- Excellent **flexibility** – joint movement $\pm 25\%$
- AS1157-1972 **Fungus and mildew resistant**
- Resistant to aviation and motor fuels
- Easy to dispense

Substrates

- Concrete and Cement
- Brick Pavers
- Aluminium
- Ceramic Tiles

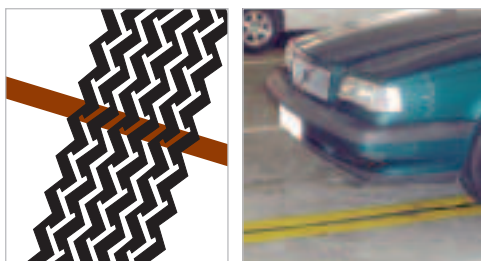
Approvals

AS1157-1972 Fungus and mildew resistance

Overview

HiSeal TG™ provides a tough, elastic, wear-resistant seal in expansion joints subject to vehicle traffic. Highly resistant to dynamic joint movement. Suitable for airport runways and taxi areas, service stations, highways.

Applications



- Sealing expansion joints in
 - Parking lots
 - Pavements
 - Driveways
 - Factory and Warehouse Floors
 - Service Stations
- Airport runways and aircraft traffic areas
- Interior / Exterior

Product Range - HiSeal TG™ Sealant

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------|-----------|
| HYTGGYL6 | Grey | 6 Litre Pail | 1 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|--------------------------------------|-------------------|-----------|
| BKBGU37 | Bulk Barrel Gun | | 1 |
| FWPT6L | Follower Plate for 6 L Pail | | 1 |
| BGUNS | Mixed Nozzle Set (pack of 5) | | 1 |
| BGUNOZ | Cone Nozzle Set Natural (pack of 10) | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

Joint Seal Silicone Construction Sealant



Joint Seal

Joint Seal is a **neutral** (non-acid) silicone sealant suitable for concrete and masonry with Low Modulus for high flexibility.

Product Advantages

- **UV and Weather Resistant**
 - Excellent resistance to aging and weathering
 - Permanently flexible
 - Will not shrink or crack
- Thixotropic - No sagging or running
- Excellent **flexibility** – joint movement $\pm 25\%$
- **Non-corrosive** neutral cure silicone
- Very easy to apply and gives a smooth finish
- **Low odour** for user comfort
- **VOC** compliant

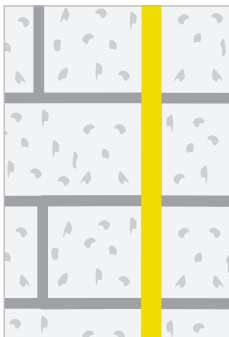
Substrates

- Concrete and Cement
- Brick
- Concrete Block
- Aluminium
- Timber

Overview

Joint Seal is a high performance neutral cure silicone sealant that provides a tough, elastic, UV resistant and weatherproof seal in exterior joints in concrete, brick and concrete block-work construction. Highly resistant to dynamic joint movement.

Applications



- Sealing expansion joints in
 - Tilt-up and Precast concrete construction
 - Brick and concrete block work
 - Tiled walls
- Perimeter sealing around window and door frames
- Interior and exterior applications

Product Range - Joint Seal

| Part No. | Colour | Volume | Order Qty |
|------------|-------------|-----------------|-----------|
| JTSLGYG410 | Grey | 300mL Cartridge | 20 |
| JTSLTRG300 | Translucent | 300mL Cartridge | 20 |

Accessories

| Part No. | Description | Diameter x Length | Order Qty |
|----------|-------------------------------|-------------------|-----------|
| CAGU300 | Caulking Gun | | 1 |
| BRPE10 | Polyethylene Foam Backing Rod | 10mm x 250m Roll | 1 |
| BRPE13 | Polyethylene Foam Backing Rod | 13mm x 50m Roll | 1 |
| BRPE15 | Polyethylene Foam Backing Rod | 15mm x 50m Roll | 1 |
| BRPE20 | Polyethylene Foam Backing Rod | 20mm x 50m Roll | 1 |
| BRPE25 | Polyethylene Foam Backing Rod | 25mm x 2m Roll | 1 |
| BRPE30 | Polyethylene Foam Backing Rod | 30mm x 2m Roll | 1 |

CONSTRUCTION CHEMICALS

Water Seal Sanitary Grade Construction Sealant



Water Seal

Water Seal is an **acetic** (acid) cure silicone sealant for wet area glazing, tiling and fixtures.

Product Advantages

- Waterproof – retains adhesion and flexibility in contact with water
- Permanently flexible
- Sag Resistant – No sagging or running
- Mould and Mildew Resistant
- Excellent flexibility – joint movement $\pm 25\%$.
- Strong adhesion

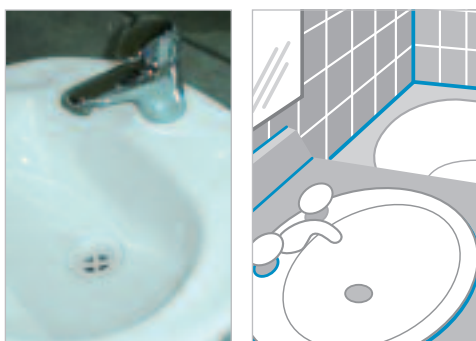
Substrates

- Glass
- Anodised Aluminium
- Colour Coated Steel and Aluminium
- Timber
- Laminate
- Acrylic
- Stainless Steel
- Vitreous Enamel
- Glazed ceramics
- Unglazed ceramics

Overview

Water Seal is waterproof and contains a fungicide to inhibit mould growth, which makes it ideal for general wet-area applications, such as bathrooms, kitchens and laundries. Water Seal is permanently flexible to resist cracking making it a perfect replacement for tile grout in internal corners and around baths and vanity basins.

Applications



- Waterproof – retains adhesion and flexibility in contact with water
- Permanently flexible
- Sag Resistant – No sagging or running
- Mould and Mildew Resistant
- Excellent flexibility – joint movement $\pm 25\%$.
- Strong adhesion

Product Range - Water Seal

| Part No. | Colour | Volume | Order Qty |
|------------|-------------|-----------------|-----------|
| WRSLWHG300 | White | 300mL Cartridge | 20 |
| WRSLTRG300 | Translucent | 300mL Cartridge | 20 |

Accessories

| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

Roof Seal Silicone Construction Sealant



Roof Seal

Roof Seal is a neutral (non-acid) silicone sealant ideal for metal flashings and rainwater accessories and will not corrode zinc galvanised steel.

Product Advantages

- UV and Weather Resistant
 - Excellent resistance to accelerated aging and weathering to **ASTM C792**
 - Permanently flexible
 - Will not shrink or crack
- Excellent flexibility
 - joint movement $\pm 25\%$
- Thixotropic - No sagging or running
- Suitable for contact with drinking water – **AS4020-1994**
- Non-corrosive neutral cure silicone
- Very easy to apply and gives a smooth finish.
- Low odour for user comfort
- VOC compliant

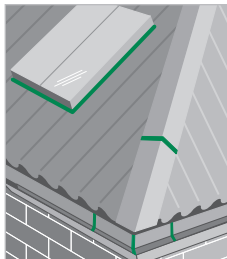
Substrates

- Galvanised Steel
- Aluminium
- Colour Coated Steel (eg. Colorbond®)
- Timber
- Terracotta
- Rigid PVC Pipe
- Brick
- Concrete and Cement

Overview

Roof Seal is UV and weather resistant for exterior plumbing and roofing applications. Its neutral cure formula is non-corrosive so it is safe to use with all metals including galvanised steel and anodised aluminium.

Applications



- Sealing roof flashings
- Sealing lap joints in gutters, down pipes and other sheet metal components
- Sealing flashings to chimneys and flues
- Sealing around roof ventilators, skylights and other penetrations
- General plumbing
- Exterior applications

Product Range - Roof Seal

| Part No. | Colour | Volume | Order Qty |
|------------|-------------|-----------------|-----------|
| RFSLTRG300 | Translucent | 300mL Cartridge | 20 |
| RFSLALG300 | Aluminium | 300mL Cartridge | 20 |
| RFSLGYG410 | Grey | 300mL Cartridge | 20 |

Accessories

| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

CONSTRUCTION CHEMICALS

Glass Seal Silicone Construction Glazing Sealant



Glass Seal

Glass Seal is an **acetic** (acid) cure, silicone glazing sealant with strong adhesion to glass and framing materials.

Product Advantages

- UV and Weather Resistant
 - Excellent resistance to accelerated aging and weathering to **ASTM C792**
 - Permanently flexible
 - Will not shrink or crack
- Thixotropic - No sagging or running
- Excellent **flexibility**
 - joint movement $\pm 25\%$
- Very easy to apply and gives a smooth finish

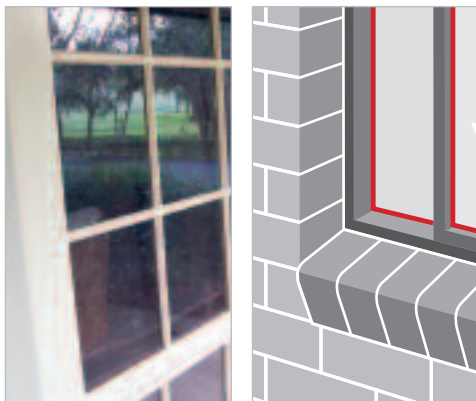
Substrates

- Glass
- Anodised Aluminium
- Colour Coated Steel and Aluminium
- Timber

Overview

Glass Seal is an acetic cure silicone with outstanding UV and weather resistance for exterior glazing applications subject to sun, wind and rain. Permanently flexible to resist dynamic movement in joints.

Applications



- Glazing applications such as:
 - Butt Joints
 - Wet Caps
 - Heal Beads
 - Weather seals
- Single and First Storey Exterior Glazing
- All interior glazing

Product Range - Glass Seal™

| Part No. | Colour | Volume | Order Qty |
|------------|--------|-----------------|-----------|
| GLSLCLG300 | Clear | 300mL Cartridge | 20 |

Accessories

| Part No. | Description | Order Qty |
|----------|--------------|-----------|
| CAGU300 | Caulking Gun | 1 |

Notes

[illegible]





CONSTRUCTION CHEMICALS

NailFree™ Construction Adhesive



NailFree™

NailFree™ is a synthetic rubber elastomer based construction adhesive.

Product Advantages

- Complies with AS2329-1999
- Effective on uneven surfaces - Bridges gaps up to 9mm
- Paintable
- Exterior / Interior – water resistant
- Reduces squeaking associated with nail ride in floors.
- Repositionable up to 20 minutes after application OR
- Bonds instantly using contact method
- Reduces number of mechanical fasteners required to install floors or walls.
- Natural wood colour
- Strong adhesion to metal
- Suitable for non-porous surfaces

Substrates

- Particleboard / Chipboard
- Medium Density Fibreboard (MDF)
- Fibre Cement Sheet
- Softwoods
- Hardwoods
- Hardboard
- Plywood
- Polyurethane Foam
- Expanded Polystyrene Foam
- Galvanised steel

Approvals

AS2329-1999

Overview

NailFree™ is a synthetic rubber based adhesive for flooring, joinery, wallboards and other general construction assembly. NailFree™ forms strong bonds to a wide variety of building materials in interior and exterior conditions.

Applications



- Bonding flooring to timber joists
- Bonding flooring to concrete joists
- Bonding flooring to metal joists
- Bonding wall panelling to plasterboard
- Bonding plasterboard to timber and metal studs
- Bonding fibre cement sheet to timber and metal studs
- Bonding skirting boards and architraves
- Bonding mirrors to walls
- Bonding polystyrene foam

Product Range - NailFree™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|-----------------|-----------|
| NFCAG320 | Straw | 300mL Cartridge | 10 |
| NFCAG930 | Straw | 850mL Cartridge | 10 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|--------------------|-----------------|-----------|
| CAGU300 | Caulking Gun | 300mL Cartridge | 1 |
| CAGU850 | Caulking Gun 850mL | 850mL Cartridge | 1 |

Safe-T-Bond™ Construction Adhesive



Substrates

- Particleboard / Chipboard
- Medium Density Fibreboard (MDF)
- Fibre Cement Sheet
- Softwoods
- Hardboard
- Plywood
- Hardwoods with dry density < 1000 Kg / m3
- Concrete
- Expanded Polystyrene Foam
- Galvanised steel

Approvals

Bond strength exceeds requirements of AS2329 - 1999

Safe-T-Bond™

Safe-T-Bond™ is a low odour; water clean-up, Acrylic Construction Adhesive.

Product Advantages

- Low odour – no solvent fumes
- Zero VOC
- Easy to use
 - Easy clean up - use water
 - Fast initial grab - minimises slippage on vertical surfaces.
 - Easy to dispense at low temperatures.
 - Bridges gaps up to 9 mm - effective on uneven surfaces
- Long repositioning time - up to 60 minutes
- Easy to use, re-sealable sausage – no caulking gun
- Strong
 - High bond strength - exceeds AS2329 - 1999, Mastic Adhesives for Fixing Wallboards
 - Strong adhesion to galvanised steel
- Will not attack polystyrene foam

Overview

Safe-T-Bond™ is formulated with strong initial suction / grab, which makes it ideal for installing wall panelling, flooring, skirting boards and architraves. It has no fumes and can be cleaned up with water.

Applications



Applications:

- Bonding flooring to timber joists
- Bonding flooring to concrete joists
- Bonding flooring to metal joists
- Bonding wall panelling to plasterboard
- Bonding plasterboard to timber and steel studs
- Bonding fibre cement sheet to timber and steel studs
- Bonding skirting boards and architraves
- Bonding polystyrene foam

Product Range - Safe-T-Bond™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|-----------------|-----------|
| STBDL1 | White | 1 Litre Sausage | 10 |

Accessories

No Caulking gun needed. Dispense straight from the sausage.





CONSTRUCTION CHEMICALS

FomoFill™ Self-expanding Polyurethane Construction Foam



FomoFill™ Self Expanding Foam

FomoFill™ is self-expanding polyurethane foam suitable for use straight from the can. FomoFill™ seals, fills and insulates large holes in most common building materials.

Product Advantages

- Expands to fill BIG holes
- Once cured, can be cut and shaped as required
- Non-shrink
- Can be sanded, filled and painted to produce a neat finish.
- Excellent insulator
- Ozone friendly – CFC, FC and HFC free

Substrates

- Particleboard / Chipboard
- Medium Density Fibreboard (MDF)
- Fibre Cement Sheet
- Timber
- Hardboard
- Plywood
- Concrete
- Plasterboard
- Galvanised steel
- Brick
- Mild steel
- Ceramic tiles
- Acrylic
- Cardboard
- Stone
- Aluminium
- Concrete Block
- Rigid PVC

Overview

Versatile FomoFill™ is a polyurethane polymer that reacts with moisture in the air causing it to expand to fill any shaped hole or cavity. The cured foam can then be cut or shaped and painted as desired. FomoFill™ is great for thermal insulation, to block out drafts or to fill or repair big holes prior to painting.

Applications



- Pipe penetrations through walls and floors
- Large gaps or holes between walls and floors
- Sealing gaps to block out dust, noise, drafts and vermin
- Gaps between joists and window and doorframes.
- Patching large holes prior to painting
- Movie or theatre set building

Product Range - FomoFill™ Self Expanding Foam

| Part No. | Colour | Volume | Order Qty |
|----------|-----------|------------------------|-----------|
| FMFLG500 | Off White | 500mL Aerosol Canister | 12 |
| FMFLG750 | Off White | 750mL Aerosol Canister | 12 |

Accessories

| Part No. | Description | Volume | Order Qty |
|----------|-----------------------|------------------------|-----------|
| FMSVM500 | Fomo Cleaning Solvent | 500mL Aerosol Canister | 1 |

FomoPlus™ Self-expanding Polyurethane Construction Foam



FomoPlus™

FomoPlus™ is a self-expanding polyurethane foam for use with an applicator. FomoPlus™ seals, fills and insulates large holes in most common building materials.

Product Advantages

- Expands to completely fill voids
- Closed cell foam structure - efficient temperature insulation
- Applicator provides neat, accurate dispensing
- Reusable
- Ozone friendly – CFC, FC and HFC free
- Resistant to blockages – ideal for stop / start work

Substrates

- Particleboard / Chipboard
- Medium Density Fibreboard (MDF)
- Fibre Cement Sheet
- Timber
- Hardboard
- Plywood
- Concrete
- Plasterboard
- Galvanised steel
- Brick
- Mild steel
- Ceramic tiles
- Acrylic
- Cardboard
- Stone
- Aluminium
- Concrete Block
- Rigid PVC

Overview

Versatile FomoPlus™ is a polyurethane polymer that reacts with moisture in the air causing it to expand to fill any shaped hole or cavity. The cured foam can then be cut or shaped and painted as desired. The FomoPlus™ applicator ensures foam is dispensed accurately to provide a neat finish and reduce waste. FomoPlus™ is ideal for thermal insulation, to block out drafts or to fill or repair big holes prior to painting.

Applications



- Sealing gaps between partitioned areas to control air flow
- Window setting (where a clean and controlled backfill is required).
- Sealing gaps to block out dust, noise, drafts and vermin
- Sealing pipe penetrations through walls and floors
- Sealing formwork for concreting and grouting
- Movie and theatre set building
- Any kind of small breakthroughs in walls and other cavities

Product Range - FomoPlus™

| Part No. | Colour | Volume | Order Qty |
|----------|-----------|------------------------|-----------|
| FMPLG750 | Off White | 750mL Aerosol Canister | 12 |

Accessories

| Part No. | Description | Volume | Order Qty |
|-----------|----------------------------|------------------------|-----------|
| FMPLGU | Controlled Flow Applicator | | 1 |
| FMPLGU300 | All Metal Applicator | | 1 |
| FMSVM500 | Cleaning Solvent | 500mL Aerosol Canister | 1 |

CONSTRUCTION CHEMICALS



CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING AND USING



Ramset



EPOXYPATCH

Epoxypatch is a two part epoxy resin binder system



PART A (Resin)
3 Litre Kit

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING AND USING



Ramset



EPOXYPATCH

Epoxypatch is a two part epoxy resin binder system



PART B (Hardener)
3 Litre Kit

GROUTING AND CONCRETE REPAIRS



CAUTION

KEEP OUT OF REACH OF CHILDREN
DO NOT OPEN UNTIL READY TO USE

RAMMED

GROUT

Grout is a high
pourable epoxy

**PART B (Hardener)
4 Litre Kit**

USES

- Patch repair when used as a mortar
- High strength mortar for repair of large sections of damaged concrete in vertical or horizontal surfaces
- Grouting starter bars, load bearing bolts and base plate supports
- Sealing of cracks in concrete
- Filling of voids in spalled concrete
- May be used in a flowable condition for repair of concrete in inaccessible locations
- Suitable for use on damp surfaces
- General Epoxy Resin System

LIMITATIONS

- If mixed unfilled, will exotherm
- The extent of heat generated is proportional to the volume and surface area
- For large volumes it's recommended that approved sand and glass beads be added
- If adding fillers mix components A & B first

Ramsell Fasteners (Aust.) Pty. Ltd.
A.B.N. 48 034 297 000
296 - 298 Monmouth Highway
Droghda North, VIC. 3176
Phone: (03) 8726 0202 Fax: (03) 8726 0201

CAUTION

KEEP OUT OF REACH OF CHILDREN

DO NOT OPEN UNTIL READY TO USE



Ramsell

EPOXY PUTTY

Epoxy Putty is a non sag flowable epoxy based, adhesive mortar



**PART A (Resin)
4 Litre Kit**

CONSTRUCTION CHEMICALS

UltraFix™ ConcreMate™ Shrinkage Compensating Patching Cement



UltraFix™ ConcreMate™

UltraFix™ ConcreMate™ is a rapid setting, high strength cement mortar that expands while setting to prevent shrinkage and cracking to create a strong, durable patch or repair in concrete.

Product Advantages

- Fast Setting
- High Strength
- Durable
- Expands To Ensure Strong Bond

Substrates

- Concrete

Overview

UltraFix™ ConcreMate™ is a quick setting, super strength, shrinkage compensating cement for patching, repairing and anchoring. It is easy to mix and apply and is ideal for industrial, mining and general use. Once mixed, UltraFix™ ConcreMate™ sets in 30 minutes and cures rock hard in 1 hour. UltraFix™ ConcreMate expands to compensate for drying shrinkage normally found in cement based products. This prevents gaps opening up between the repair and the existing concrete and promotes a strong long lasting bond.

Applications



- Repairing spalled, chipped or cracked concrete
- Filling gaps between concrete and fixtures
- Anchoring into concrete
 - Threaded rod
 - Reinforcing bar
 - Hand rail and balustrade supports
- Exterior / Interior

Product Range - UltraFix™ ConcreMate™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|-----------|-----------|
| 830104 | Grey | 10kg Pail | 1 |
| 830111 | Grey | 25kg Pail | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|-------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |

GROUTING AND CONCRETE REPAIRS

Premier Grout MP™ Class A Non-Shrink Cement Grout



Premier Grout MP™

Premier Grout MP™ is a Class A, non shrink cement grout that complies with AS MP20, Part 3 (1977).

Product Advantages

- High Strength
- Non-shrink
 - Good dimensional stability
 - Complete void filling
- Versatile - Can be dry packed, rammed, trowelled, poured and pumped over short distances
- Economical, low in-place cost
- Ready to use, pre mixed, requires only the addition of water.
- Non-staining – chloride and iron free
- Lower water/cement ratio
 - Reduced drying shrinkage
 - Increased hardness and durability
- Reduces Permeability

Substrates

- Concrete

Approvals

AS MP20, Part 3 (1977)

Overview

Premier Grout MP™ is a Class A, non shrink cement grout that complies with AS MP20, Part 3 (1977). The product consists of a speciality blend of cement, graded aggregate and other chemically reactive agents that compensate for drying shrinkage commonly found in cement products. Premier Grout MP™ does not contain any ferrous material or Calcium Chloride. High strength Premier Grout MP™ will not shrink making it ideal for filling holes and voids in concrete for installing and repairing posts, bolts, pipe penetrations or structural underpinning.

Applications

- All general purpose grouting.
- Installing Balustrade Posts
- Grouting under Precast and tilt slab panels
- Grouting ducts in post-tensioned concrete panels.
- Grouting machine and bearing base plates.
- Grouting:
 - Reinforcing Bars
 - Anchor Bolts
- Grouting in column bases
- Filling core holes, rod holes and defects in concrete.
- Fill-in grout for hollow concrete block walls

Product Range - Premier GroutMP™

| Part No. | Volume | Order Qty |
|----------|----------|-----------|
| RPGMP | 20kg Bag | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |

CONSTRUCTION CHEMICALS

CemCrete™ Polymer Bonding and Sealing Agent



CemCrete™

CemCrete™ improves toughness and adhesion when added to cement based mixtures.

Product Advantages

- Improves strength and toughness of cement mixtures
- Improves adhesion of cement mixtures to existing concrete, brick and block
- Strong bond
- Economical
 - High concentration
 - High molecular weight polymer
 - High dilution
- User Friendly – clean up with water
- User Friendly – low odour

Substrates

- Concrete
- Concrete Block
- Brick
- Timber
- Fibre Cement Sheet
- Plasterboard

Overview

CemCrete™ is a high molecular weight polymer concentrate, which is diluted and added to cement mixtures to reduce cracking and improve adhesion. CemCrete™ also aids bonding of concrete, renders, mortars and toppings to existing concrete, block and brick. CemCrete™ is ideal for priming porous surfaces for ceramic tiling and to add flexibility to cement tile grouts and adhesives.

Applications

- Bonding new concrete to old
- Bond coat for:
 - Cement Render
 - Solid Plaster
 - Patching
 - Cement Toppings
 - Cement tile adhesives
- Improving toughness and adhesion of cement renders, mortars and solid plaster
- Priming, sealing and dust proofing interior concrete walls and floors
- Adding flexibility to cement tile grout and adhesives

Product Range - CemCrete™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------------|-----------|
| CMCRL20 | Clear | 20 Litre Jerry Can | 1 |
| CMCRL5 | Clear | 5 Litre Jerry Can | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |

GROUTING AND CONCRETE REPAIRS

ConcreBond™ Acrylic Polymer Bonding and Sealing Agent



ConcreBond™

ConcreBond™ improves toughness, adhesion and water resistance when added to cement based mixtures.

Product Advantages

- Improves strength and toughness of cement mixtures
- Improves adhesion of cement mixtures to existing concrete, brick and block
- Strong bond
- Economical
 - High concentration
 - High dilution
- Greater water resistance than conventional bonding agents
- User Friendly – clean up with water
- User Friendly – low odour

Substrates

- Concrete
- Concrete Block
- Brick
- Timber
- Fibre Cement Sheet
- Plasterboard

Overview

ConcreBond™ improves toughness and adhesion when added to cement based mixtures such as render, concrete, mortar, grout and tile adhesives. ConcreBond™ is an acrylic emulsion polymer, which has higher water resistance than conventional concrete bonding agents.

Applications



- Bonding new concrete to old
- Bond coat for:
 - Cement Render
 - Solid Plaster
 - Patching
 - Cement Toppings
 - Cement tile adhesives
- Improving toughness, adhesion and water resistance of cement renders, mortars and solid plaster
- Priming, sealing and dust proofing interior concrete walls and floors
- Adding flexibility to cement tile grout and adhesives

Product Range - ConcreBond™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------------|-----------|
| CNBDL20 | Clear | 20 Litre Jerry Can | 1 |
| CNBDL5 | Clear | 5 Litre Jerry Can | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |

CONSTRUCTION CHEMICALS

PlusCrete™ water proof polymer bonding and sealing agent



PlusCrete™

PlusCrete™ improves toughness, adhesion and water resistance when added to cement based mixtures.

Product Advantages

- Improves strength and toughness of cement mixtures
- Improves adhesion of cement mixtures to existing concrete, brick and block
- Strong, waterproof bond
- Economical
 - High concentration
 - High dilution
- User Friendly – clean up with water
- User Friendly – low odour

Substrates

- Concrete
- Concrete Block
- Brick
- Timber
- Fibre Cement Sheet
- Plasterboard

Overview

PlusCrete™ improves toughness and adhesion when added to cement based mixtures such as render, concrete, mortar, grout and tile adhesives. PlusCrete™ is a synthetic rubber emulsion polymer, which has very high water resistance, providing a water proof bond.

Applications

- Bonding new concrete to old
- Water proof bond coat for:
 - Cement Render
 - Solid Plaster
 - Patching
 - Cement Toppings
 - Cement tile adhesives
- Improving toughness, adhesion and water resistance of cement renders, mortars and solid plaster
- Priming, sealing and dust proofing interior concrete walls and floors
- Adding flexibility to cement tile grout and adhesives

Product Range - PlusCrete™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------------|-----------|
| PSCRL20 | Clear | 20 Litre Jerry Can | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |

GROUTING AND CONCRETE REPAIRS

Epoxy Grout



Epoxy Grout

Epoxy Grout is a tough epoxy resin based grout for use in pourable form or for mixing with graded sand filler to produce a trowellable consistency.

Product Advantages

- High flow properties – good bonding and penetration
- Bonds to dry and damp concrete
- Pre-measured kits to avoid measuring errors
- High tensile and compressive strength
- Cures at temperatures down to 5°C
- 100% solids epoxy – solvent free and negligible shrinkage
- High mechanical strength
- Resistant to vibration and dynamic loads
- Add graded sand to change consistency

Substrates

- Concrete
- Concrete Block
- Brick

Overview

Epoxy Grout is a 2-part 100% solventless epoxy resin with graded fillers, which can be used as is or with additional fillers to create a range of application consistencies. Epoxy Grout is tough and durable specially formulated for strong bond to concrete, brick and block.

Applications

- Grouting heavy duty supports beneath crane and transporter rails
- Grouting under machinery baseplates
- Anchoring holding down bolts, deformed bars, ferrules and threaded rod into carbide drilled and diamond cored holes in concrete
- Bonding new to old concrete
- Grouting under column base plates
- Corrosion protection on steel reinforcement prior to application of concrete repair mortar

Product Range - Epoxy Grout™

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------|-----------|
| EPGRL2 | Grey | 2 Litre Kit | 1 |
| EPGRL4 | Grey | 4 Litre Kit | 1 |
| EPGRL16 | Grey | 16 Litre Kit | 1 |

Accessories

| Part No. | Description | Volume | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |
| RFLFG | Fillers FG Fine Grade Sand | 20Kg | 1 |

CONSTRUCTION CHEMICALS

Epoxy Patch



Epoxy Patch

Epoxy Patch is a tough epoxy resin based concrete repair compound for mixing with graded sand filler to produce various consistencies.

Product Advantages

- High flow properties – good bonding and penetration
- Bonds to dry and damp concrete
- Pre-measured kits to avoid measuring errors
- High tensile and compressive strength
- Cures at temperatures down to 5°C
- 100% solids epoxy – solvent free and negligible shrinkage
- High mechanical strength
- Resistant to vibration and dynamic loads
- Add graded sand to change consistency

Substrates

- Concrete
- Concrete Block
- Brick

Overview

Epoxy Patch is a 2-part 100% solventless epoxy resin which can be used as is or with fillers to create a range of application consistencies. Epoxy Patch has low viscosity to allow it to penetrate deep into cracks in concrete. With fillers it is transformed into a pourable or trowellable patching and grouting compound. Epoxy Patch is tough and durable, specially formulated for strong bond to concrete, brick and block.

Applications

- Structural repairs to damaged concrete and masonry
- Bonding new to old concrete
- Corrosion protection on steel reinforcement prior to application of concrete repair mortar
- Repair cracks in concrete

Product Range - Epoxy Patch

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------|-----------|
| EPPHL1 | Honey | 1 Litre Kit | 1 |
| EPPHL3 | Honey | 3 Litre Kit | 1 |
| EPPHL20 | Honey | 20 Litre Kit | 1 |

Accessories

| Part No. | Description | Net Weight / Suits | Order Qty |
|----------|-----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |
| RFLFG | Fillers FG Fine Graded Sand | 20Kg | 1 |

FillersFG™



FillersFG™

FillersFG™ is a fine graded inorganic pre blended mineral filler.

Product Advantages

- Reduces exotherm of epoxies
- Enables thicker sections to be poured
- Can produce more mortar of various consistencies
- Reduces in-place cost of Epoxy mixtures
- Add to Epoxy Patch and Epoxy Grout to increase viscosity
- Graded sand - consistent mixtures

Overview

Add FillersFG™ to Epoxy Grout and Epoxy Patch to create Mortar and Grout of various consistencies, eg. pourable, trowellable and dry pack.

Applications

- Use for mixing with epoxy resin binders to produce mortars of various consistencies
- Can produce consistencies ranging from a pourable grout to high build trowellable mortars
- Non skid surfaces
- Preparation of concrete mortars and mixers

Product Range - FillersFG™

| Part No. | Colour | Net Weight | Order Qty |
|----------|--------|------------|-----------|
| RFLG | Tan | 20kg bag | 1 |

CONSTRUCTION CHEMICALS

Epoxy Putty



Epoxy Putty

Epoxy Putty is a tough epoxy repair putty for use in high build concrete repair applications.

Product Advantages

- Sag resistant
- High build consistency
- Suitable for filling voids with thick cross-section – low heat generated during cure
- Trowellable
- High compressive strength
- 100% solids epoxy – solvent free and negligible shrinkage
- Water proof when cured
- Equal Parts Mix Ratio - Easy to use and measure

Substrates

- Concrete
- Concrete Block
- Brick
- Steel

Overview

Epoxy Putty is a 2-part 100% solventless epoxy compound for repairing chips, cracks, spalls and other defects in concrete. Its putty like consistency makes it ideal for repairs where a flowable compounds will not stay in place.

Epoxy Patch is tough and durable specially formulated for strong bond to concrete, brick and block.

Applications

- Structural repairs to damaged concrete and masonry
- Filling holes, wide cracks, chips in concrete
- Filling gaps between steel and concrete and timber and concrete

Product Range - Epoxy Putty

| Part No. | Colour | Volume | Order Qty |
|----------|--------|--------------|-----------|
| EPPYL1 | Grey | 1 Litre Kit | 1 |
| EPPYL2 | Grey | 2 Litre Kit | 1 |
| EPPYL4 | Grey | 4 Litre Kit | 1 |
| EPPYL20 | Grey | 20 Litre Kit | 1 |

Accessories

| Part No. | Description | Suits | Order Qty |
|----------|----------------------------|--------------------------|-----------|
| SSMP | Small Spiral Mixing Paddle | Mixtures up to 4L | 1 |
| LSMP | Large Spiral Mixing Paddle | Mixtures greater than 4L | 1 |

Notes

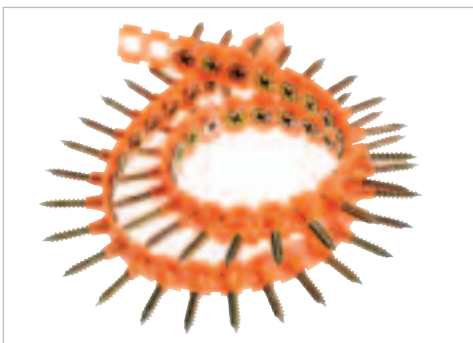
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SCREWS





Plasterboard Screws



Applications

- Plasterboard

Head Styles

- Bugle Head
- Countersunk Ribbed
- Wafer

Overview

Self drilling fasteners for fixing gypsum plasterboards to thin metal or timber.

Product Advantages

- Fine grain high carbon steel
- Heat treated
- Re-usable packaging

- For fixing plasterboard to timber or light gauge steel framing
- Can be used for ceiling and wall fixing
- Specially designed heads pull down below the surface

| Part No | Description | Point Type | Gauge | Length | Order Qty |
|--------------|---------------------|-------------|-------|---------|-----------|
| RSN06025YBTC | Bugle Head collated | Needle | 6 | 18x25mm | 1000 |
| RSN06032YBTC | Bugle Head collated | Needle | 6 | 18x32mm | 1000 |
| RSN06041YBTC | Bugle Head collated | Needle | 6 | 18x41mm | 1000 |
| RSN06025YBT | Bugle Head | Needle | 6 | 18x25mm | 1000 |
| RSN06030YBT | Bugle Head | Needle | 6 | 18x30mm | 1000 |
| RSN06041YBT | Bugle Head | Needle | 6 | 18x40mm | 1000 |
| RSN07045YBT | Bugle Head | Needle | 7 | 16x45mm | 500 |
| RSN07051YBT | Bugle Head | Needle | 7 | 16x51mm | 500 |
| RSN08065YBT | Bugle Head | Needle | 8 | 15x68mm | 250 |
| RSD06025YBB | Bugle Head | Drill Point | 6 | 20x25mm | 1000 |
| RSD06030YBB | Bugle Head | Drill Point | 6 | 20x30mm | 1000 |
| RSD06045YBB | Bugle Head | Drill Point | 6 | 20x40mm | 1000 |
| RSD06025YBTC | Bugle Head collated | Drill Point | 6 | 18x25mm | 1000 |
| RSD06032YBTC | Bugle Head collated | Drill Point | 6 | 18x32mm | 1000 |
| RSD06041YBTC | Bugle Head collated | Drill Point | 6 | 18x41mm | 1000 |
| RSN07020YBF | Bugle Head | Needle | 7 | 9x20mm | 1000 |
| RSN07025YBF | Bugle Head | Needle | 7 | 9x25mm | 1000 |
| RSN07030YBF | Bugle Head | Needle | 7 | 9x30mm | 1000 |
| RSN07041YBF | Bugle Head | Needle | 7 | 9x41mm | 500 |
| RSN08050YBF | Bugle Head | Needle | 8 | 9x50mm | 500 |
| RSN10038YBF | Bugle Head | Needle | 10 | 8x38mm | 500 |
| RSN08020YST | CSK Rib Head | Needle | 8 | 15x20mm | 1000 |
| RSN08030YST | CSK Rib Head | Needle | 8 | 15x30mm | 1000 |
| RSN08012YLT | Stitch Large Wafer | Needle | 8 | 15x12mm | 1000 |
| RSN08016YLT | Stitch Large Wafer | Needle | 8 | 15x16mm | 1000 |
| RSN08020YLT | Stitch Large Wafer | Needle | 8 | 15x20mm | 1000 |
| RSN08025YLT | Stitch Large Wafer | Needle | 8 | 15x25mm | 1000 |
| RSN08032YLT | Stitch Large Wafer | Needle | 8 | 15x32mm | 1000 |

Metal Screws



Overview

Self drilling fasteners that drill, tap and fasten in one single operation into steel up to 6.4mm thick. With fastening reduced to a single operation, alignment problems are eliminated and it is more economical to use metal screws than to drill, tap and fasten in the traditional manner.

Product Advantages

Applications

- Metal

- Fine grain high carbon steel
- Fine thread to tap into steel
- Re-usable packaging

Head Styles

- Wafer
- Countersunk Rib Head
- Hex Head
- Flat Head

- For fixing pre-drilled metal or timber to heavy gauge metal

| Part No. | Description | Point Type | Gauge | Length | Order Qty |
|--------------|-----------------|----------------------|-------|---------|-----------|
| RSD08012YLB | SD Large Wafer | Wafer | 8 | 18x12mm | 1000 |
| RSD08016YLB | SD Large Wafer | Wafer | 8 | 18x16mm | 1000 |
| RSD08012YWB | SD Wafer Head | Drill Point | 8 | 18x12mm | 1000 |
| RSD10016YWB | SD Wafer Head | Drill Point | 10 | 16x6mm | 1000 |
| RQ512032MHC | SD Hex Head | Extended Drill Point | 12 | 24x32mm | 200 |
| RQ512050MHC | SD Hex Head | Extended Drill Point | 12 | 24x50mm | 200 |
| RSD06050YSBW | SD CSK Rib Head | Winged Drill Bit | 6 | 20x50mm | 500 |
| RSD10040YSBW | SD CSK Rib Head | Winged Drill Bit | 10 | 16x40mm | 500 |
| RSD10045YSBW | SD CSK Rib Head | Winged Drill Bit | 10 | 16x45mm | 500 |
| RSD10060YSBW | SD CSK Rib Head | Winged Drill Bit | 10 | 16x60mm | 200 |
| RSD08022MSBW | SD CSK Rib Head | Winged Drill Point | 8 | 18x22mm | 1000 |
| RSD08032MSBW | SD CSK Rib Head | Winged Drill Point | 8 | 18x32mm | 1000 |
| RSD08040MSBW | SD CSK Rib Head | Winged Drill Point | 8 | 18x40mm | 1000 |
| RSDSHZY1016 | Flat Head | Drill Point | 10 | 16x16mm | 1000 |
| RNPSHZY1016 | Flat Head | Needle Point | 10 | 16x16mm | 1000 |

Particle Board Screws



Overview

For attaching particle board and soft timbers to particle board and soft timbers and is ideal for furniture, cabinet making and other particle board applications.

Product Advantages

Applications

- Particle Board
- Soft Timbers

- Coarse thread for easy penetration
- Countersunk head for neat finish
- Re-usable packaging

Head Style

- Countersunk

- For fixing particle board and MDF to soft timbers
- Designed for a flush or recessed finish

| Part No | Description | Point Type | Gauge | Length | Order Qty |
|-------------|----------------------|------------|-------|---------|-----------|
| RSC08020YSF | Particleboard CSK ZY | Rib | 8 | 10x20mm | 1000 |
| RSC08025YSF | Particleboard CSK ZY | Rib | 8 | 10x25mm | 1000 |
| RSC08028YSF | Particleboard CSK ZY | Rib | 8 | 10x28mm | 1000 |
| RSC08032YSF | Particleboard CSK ZY | Rib | 8 | 10x32mm | 1000 |
| RSC08035YSF | Particleboard CSK ZY | Rib | 8 | 10x35mm | 1000 |
| RSC08041YSF | Particleboard CSK ZY | Rib | 8 | 10x40mm | 500 |
| RSC08045YSF | Particleboard CSK ZY | Rib | 8 | 10x45mm | 500 |
| RSC08051YSF | Particleboard CSK ZY | Rib | 8 | 10x50mm | 500 |
| RSC08057YSF | Particleboard CSK ZY | Rib | 8 | 10x57mm | 500 |
| RSC10065YSF | Particleboard CSK ZY | Rib | 10 | 8x65mm | 250 |
| RSC10075YSF | Particleboard CSK ZY | Rib | 10 | 8x75mm | 250 |

Notes

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It is the responsibility of the user to ensure product selected is appropriate for its intended use.
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HEAD OFFICE:

296-298 Maroondah Highway
Mooroolbark, Victoria 3138
Tel: 03 9726 6222

STATE BRANCHES

VICTORIA

96 Church Street, Richmond 3121
296-298 Maroondah Highway, Mooroolbark 3138

NSW

71 Carnarvon Street, Silverwater 2128
563 Gardeners Road, Mascot 2020
77 Munibung Road, Cardiff 2285

ACT

5/19 Tennant Street, Fyshwick 2609

QUEENSLAND

281 Montague Road, West End 4101
153 Ingham Road, Townsville 4810

SOUTH AUSTRALIA

115 Sir Donald Bradman Drive, Hilton 5033

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Sales, Orders and Enquiries

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