BREMICK®

# Mechanical and Chemical Anchoring

AUSTRALIA & NEW ZEALAND


**Catalogue**

# LOCAL EXPERTISE
# GLOBAL REACH.

## DISTRIBUTION CENTRES

### SYDNEY
**National Head Office**
88 Dalmeny Avenue
Rosebery NSW 2018
Tel: 02 8332 1500

### SYDNEY
**National Distribution Centre**
Warehouse 4B
M5/M7 Logistics Park
3 Melito Court
Prestons NSW 2170
Tel: 02 8332 1500

### NEWCASTLE
**Sales & Distribution Centre**
Unit 5, 20 Templar Place
Bennetts Green NSW 2290
Tel: 02 4014 0400

### AUCKLAND
**Sales & Distribution Centre**
M20 Business Park
70A Plunket Avenue
Manukau Auckland 2104
Tel: +64 (09) 525 2244

### TOWNSVILLE
**Sales & Distribution Centre**
15-19 Toll St
Mount St John QLD 4818
Tel: 07 4729 4900

### PERTH
**Sales & Distribution Centre**
635 Marshall Road
Malaga WA 6090
Tel: 08 9233 3400

### BRISBANE
**Sales & Distribution Centre**
430 Sherbrooke Road
Willawong QLD 4110
Tel: 07 3273 9700

### CHRISTCHURCH
**Sales & Distribution Centre**
398B Halswell Junction Rd
Hornby South Christchurch 8024
Tel: +64 (03) 365 8998

### MELBOURNE
**Sales & Distribution Centre**
30 Jayco Drive
Dandenong South VIC 3175
Tel: 03 8710 7400

### DARWIN
**Sales & Distribution Centre**
Unit 3
60 Albatross Street
Winnellie NT 0820
Tel: 08 8997 5800

### ADELAIDE
**Sales & Distribution Centre**
78 Pym St
Dudley Park SA 5008
Tel: 08 8368 5900

BREMICK®

# BUILD BETTER WITH BREMICK

Bremick is a leading brand name, known for its commitment to quality, innovation, and customer satisfaction. Bremick is an Australian-owned company specialising in the manufacture and supply of high-quality fasteners and industrial supplies.

Established in 1965, Bremick has grown over the past six decades to become a leading provider in the construction, manufacturing, mining, and petrochemical industries. Since its inception, the company has expanded its operations globally, with a strong presence in Australia, New Zealand and China. Today, most of Australia's most significant projects, including bridges, skyscrapers, oil and gas projects, mines and major infrastructure projects, are constructed using Bremick products.


OVER 60

Years of Trust, Quality & Innovation

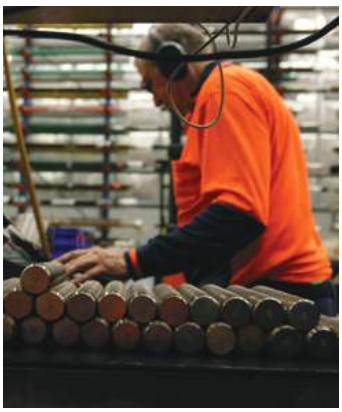
1965 – 2025

## Extensive Product Offering

Bremick offers a comprehensive range of fastening solutions, including but not limited to self-drilling screws, structural assemblies, bolts, threaded rod, nails, mechanical and chemical anchors, rivets, and petrochemical fasteners in a range of different materials and finishes. Engineered for reliability and performance, our products meet the demands of diverse industries and applications. Our extensive, performance-driven portfolio is matched only by our commitment to exceptional service, supply chain reliability, and cost competitiveness.

## Innovation & New Product History

Innovation is part of our DNA. Building on decades of expertise, our continuous improvement mindset underpins quality control and invention, ensuring our products consistently exceed expectations. We understand the need for cutting-edge solutions in the fast-paced construction industry. By continuously pushing the boundaries of what's possible, we ensure that our customers are equipped with the latest advancements in fastener technology.



## Bremick Operations

Our international presence is the foundation of our extensive distribution network and unparalleled products and services. With an expansive footprint across Australia and New Zealand, we remain responsive and have the depth of product availability to offer same-day and next-day delivery from all our locations.

Bremick operates ten Sales and Distribution Warehouse centres across Australia and New Zealand. We also have a NATA Accredited Quality Control Laboratory and manufacturing facility at our National Distribution Centre in Sydney, as well as two manufacturing facilities and two NATA Accredited Quality Control Laboratories in China. We continue to partner with the industry's most trusted names, expanding our distribution footprint and manufacturing capabilities.

## Sustainability

We continue to embed best practices into all facets of our supply chain and business model to minimise our environmental footprint. We are dedicated to creating more sustainable and eco-friendly products and packaging solutions that fulfil our customers' needs and provide significant environmental advantages. As part of this commitment, we are actively investigating and designing sustainable packaging solutions. By leveraging the APCO data, APCO information and APCO guidance, we are providing clear and concise recyclability information into all our product ranges.

## Technical Capability

Select the right product for any job with our extensive library of technical resources and product certifications. Our expert team has developed technical information to help you navigate our wide range of products and choose the right tools for your project. We take pride in understanding your technical and application requirements and have a highly skilled team so you can feel confident that the highest level of support is always on hand.

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# Non Safety Critical Anchors

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### SLEEVE ANCHOR



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### MASONRY SCREW



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### THREADED ROD HANGER



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# COMPREHENSIVE OFFER
# COMPREHENSIVE SUPPORT

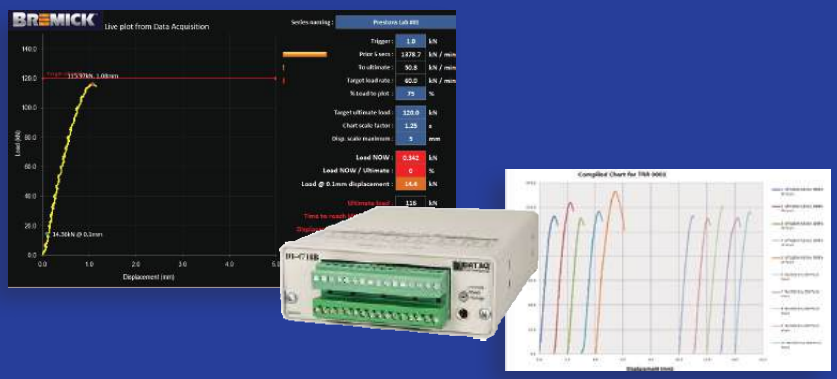
## Modern, concise product range & performance information

Our newly refreshed product and performance information simplifies product selection, providing all of the information required to specify, purchase, install and put into service the optimal Masonry Anchoring solution for your application.

The product information suite consists of:

- Mechanical and Chemical Anchoring Catalogue
- Mechanical and Chemical Anchoring Product Guide – giving an 'at a glance' view of the comprehensive Bremick offer
- Technical Data Sheets (TDS) for NCC Compliant products – used in Safety Critical applications.
- Product Data Sheets (PDS) for those products not requiring NCC Compliance, to be used in Non Safety Critical applications
- Safety Data Sheets (SDS) for all chemical products
- Full performance ETA Certification

All of the above information is readily available through the Bremick website at bremick.com.au




## Investment in Masonry Anchor Testing capability at our National Distribution Centre test laboratory

We have recently expanded our testing laboratory capability to include testing of anchors in concrete and other masonry substrates.

This includes tensile testing of anchors to a capacity of 300kN (30 tonnes).

This capability will enable us to unlock additional market / application opportunities as well as produce modern technical data that better meets market expectations.

## Training Support

A dedicated Training support package is available to elevate your knowledge of Masonry Anchoring with Bremick Training Modules, that include:

- Introduction to Anchors
- Introduction to Mechanical Anchors
- Introduction to Chemical Anchors
- 4 additional modules dedicated to deep diving into Chemical Anchors


## In-house Engineering Support

We stand behind our product offer with dedicated, in house technical expertise ready to support you to ensure that optimal project outcomes are delivered from your Bremick Masonry Anchoring investment.

- In-house Industry Engineer – over 25 years anchoring experience in product manufacture, testing, design and in field Engineering support – here to assist your selection of the optimal anchoring solution for your application.
- Our dedicated team of Engineering and Materials Science specialists based at our product testing & evaluation laboratory located in Sydney.
- In field sales representatives with extensive experience in supplying Masonry Anchoring solutions to the market.


## Simplifying Selection

You will see this color scheme at work across our product livery, technical information, packaging and marketing materials:

NCC Compliant product

Non Safety Critical product

# What's NEW

## NCC Compliant Anchors

### Safety Anchor Hex Head

10mm – 24mm

ZINC PLATED

National Construction Code C1 C2 SEISMIC FIXING

### Safety Anchor Countersunk Head

10mm – 18mm

ZINC PLATED

National Construction Code C1 C2 SEISMIC FIXING

### Screw Anchor Flange Hex Head

6mm – 12mm

ZINC PLATED

National Construction Code C1 C2 SEISMIC FIXING

### Screw Anchor Flange Hex Head

6mm – 12mm

CERAMIC COATED

National Construction Code C1 C2 SEISMIC FIXING

### Screw Anchor Flange Hex Head

6mm – 12mm

STAINLESS STEEL 316

National Construction Code OPTION 1 Cracked Concrete

### Screw Anchor Countersunk Head

6mm – 10mm

CERAMIC COATED

National Construction Code C1 C2 SEISMIC FIXING

### Screw Anchor Countersunk Head

6mm – 10mm

STAINLESS STEEL 316

National Construction Code OPTION 1 Cracked Concrete

### Screw Anchor Rod Hanger

M8/M10 Internal Thread

ZINC PLATED

National Construction Code C1 SEISMIC FIXING

### Screw Anchor External Thread

M8/M10 Internal Thread

CERAMIC COATED

National Construction Code C1 SEISMIC FIXING

### Screw Anchor Pan Head

6mm

CERAMIC COATED

National Construction Code C1 SEISMIC FIXING

### Through Bolt Hex Nut

10mm – 20mm

ZINC PLATED

National Construction Code C1 C2 SEISMIC FIXING

### Through Bolt Hex Nut

8mm – 16mm

CERAMIC COATED

National Construction Code C2 SEISMIC FIXING

### Through Bolt Hex Nut

8mm – 16mm

STAINLESS STEEL 316

National Construction Code C2 SEISMIC FIXING

### Drop In Anchor Internal Thread

M6 – M16

ZINC PLATED

National Construction Code OPTION 7 Uncracked Concrete

### Splice Anchor Round Head

6mm

ZINC PLATED

National Construction Code ETAG 001

### Chemical Injection Pure Epoxy

585ml

National Construction Code C1 C2 SEISMIC FIXING

### Chemical Injection Vinylester

300ml – 410ml

National Construction Code OPTION 1 Cracked Concrete

## Non Safety Critical Anchors

### Screw Anchor Countersunk Head
6mm – 12mm

MECHANICAL GALVANISED

### Screw Anchor Eye Bolt
Range 8mm

ZINC PLATED

### Sleeve Anchor Countersunk Head
6.5mm – 10mm

STAINLESS STEEL 316

### Sleeve Anchor Flush Head
10mm – 16mm

MECHANICAL GALVANISED

### Sleeve Anchor Flush Head
8mm – 12mm

STAINLESS STEEL 316

### Sleeve Anchor Round Head
6.5mm

ZINC YELLOW

### Sleeve Anchor Post Head Countersunk
6.5mm –10mm

ZINC PLATED

### Sleeve Anchor Post Head Countersunk
6.5mm –10mm

STAINLESS STEEL 316

### Sleeve Anchor Post Head Round
6.5mm

ZINC YELLOW

### Sleeve Anchor Post Head Tie Wire
M6 & M10 Internal

ZINC YELLOW

### Masonry Screw Flange Hex Head
5mm (4mm pilot hole) & 6.5mm (5mm pilot hole)

B8® COATING

### Masonry Screw Countersunk Head
5mm (4mm pilot hole) & 6.5mm (5mm pilot hole)

B8® COATING

### Fixconn Screw Washer Head
7.5mm (6mm pilot hole)

B8® COATING

### Wall Grab Screw Pan Head
Square/Phillips Drive 5mm

ZINC PLATED

### Wall Grab Screw Pan Head
Square/Phillips Drive 5mm

MECHANICAL GALVANISED

### Threaded Rod Hanger Timber/ Vertical
M10 Internal

ZINC PLATED

### Threaded Rod Hanger Timber/ Side
M10 Internal

ZINC PLATED

### Threaded Rod Hanger Metal/ Vertical
M10 Internal

ZINC PLATED

### Threaded Rod Hanger Metal/ Side
M10 Internal

ZINC PLATED

### Threaded Rod Hanger Concrete/ Vertical
M10 Internal

ZINC PLATED

### S Drive Anchor Formwork Head
5mm – 6.5mm

MECHANICAL GALVANISED

### S Drive Anchor Tie Wire
5mm – 6.5mm

ZINC PLATED

### Split Drive Anchor Countersunk Head
6mm

STAINLESS STEEL 316

### Split Drive Anchor Mushroom Head
6mm

MECHANICAL GALVANISED

# What's NEW

**Metal Pin Anchor Mushroom Head**

6.5mm

STAINLESS STEEL 316

**Nylon Nail In Anchor Mushroom Head**

5mm – 6.5mm

STAINLESS STEEL 304

**Heavy Duty Nylon Anchor Countersunk Head**

5mm – 8mm

ZINC PLATED

KEW fixing technology

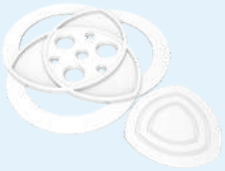
**Kew Heavy Duty Nylon Anchor Countersunk Head**

6mm – 8mm

STAINLESS STEEL 304

KEW fixing technology

**Universal Insulation Disk**



KEW fixing technology

**Hammer Fix Insulation Fixing Fastener**

8mm

KEW fixing technology

**Metal Insulation Fastener**

8mm

KEW fixing technology

**Insulation Plug**

KEW fixing technology

**Spring Toggle Square Hook**

M5

ZINC YELLOW

**PU Expanding Foam Fire Rated**

**PU Expanding Straw Foam**

**PU Expanding Foam Cleaner**

**Window Packer 45mm**

1mm – 10mm

**Window Packer 90mm**

1mm – 20mm

**Window Packer 140mm**

1mm – 10mm

**Panel Shim Full 100mmx150mm**

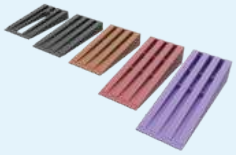
1mm – 20mm

**Panel Shim Half 100mmx75mm**

1mm – 20mm

**Builders Wedge**

10mm – 22mm



**T Shape Spacer**

3mm – 5mm

**Multi Spacer**

3/4/5/6mm


# NEXT LEVEL PERFORMANCE
# EXCEPTIONAL QUALITY
# UNMATCHED DURABILITY

Our products have passed the test of time, with communities, Australia wide, relying on their superior performance across the built environment.

# Mechanical Anchoring & Light Duty Selection Chart

| | Safety Anchor | Screw Anchor | Through Bolt | Drop In Anchor | Splice Anchor | KEW Universal Frame Anchor | Screw Anchor | Screw Anchor Tie Down | Screw Anchor Eye Bolt | Through Bolt | Through Bolt Suspension Tie Wire | Drop In Anchor | Sleeve Anchor | Sleeve Anchor Eye, Hook, Suspension | Sleeve Anchor Post Head | Masonry Screw | Fixconn Screw |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NCC Compliant Anchors | | | | | | Non Safety Critical Anchors | | | | | | | | | | |
| **Anchor Head Type** | | | | | | | | | | | | | | | | | |
| Countersunk Head | ▲ | ▲ | | | | ▲ | ▲ | | | | | | ▲ | | ▲ | ▲ | |
| Eye, Hook, Cup | | | | | | | | | ▲ | | | | | | | | |
| Flange Hex Head | | ▲ | | | | ▲ | ▲ | | | | | | | | | ▲ | |
| Flush Head | | | | | | | | | | | | | ▲ | | | | |
| Hex Head | ▲ | | | | | | | | | | | | | | | | |
| Formwork Head | | | | | | | | | | | | | | | | | |
| Hex Nut | | | ▲ | | | | | | | ▲ | ▲ | | ▲ | | | | |
| Mushroom Head | | | | | | | | | | | | | | | | | |
| Pan/Round/Washer Head | | ▲ | | | ▲ | | | | | | | | ▲ | | ▲ | | ▲ |
| Suspension /Tie Wire Head | | | | | | | | | | | | | | ▲ | ▲ | | |
| External Thread | | ▲ | | | | | | | | | | | | | | | |
| Internal Thread | | ▲ | | ▲ | | | | ▲ | | | | ▲ | | | | | |
| **Anchor Material/Finish** | | | | | | | | | | | | | | | | | |
| Zinc Yellow | | | | | | | | ▲ | | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | | |
| Zinc Plated | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | | ▲ | | | | | | | | |
| Mechanical Galvanised | | | | | | | ▲ | ▲ | | | | | ▲ | | | | |
| Hot Dipped Galvanised | | | | | | | | | | ▲ | ▲ | | | | | | |
| Ceramic Coated | | ▲ | ▲ | | | | | | | | | | | | | | |
| B8 Coating | | | | | | | | | | | | | | | | ▲ | ▲ |
| Stainless Steel 304 | | | | | | | | | | | | | | | | | |
| Stainless Steel 316 | | ▲ | ▲ | | | ▲ | | | | ▲ | ▲ | ▲ | ▲ | | ▲ | | |
| Plastic/PVC/Nylon | | | | | | ▲ | | | | | | | | | | | |
| Zinc Alloy | | | | | | | | | | | | | | | | | |
| **Base Material/Substrate** | | | | | | | | | | | | | | | | | |
| Uncracked Concrete | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Cracked Concrete | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| Seismic Rating Available * | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| Stone | | | | | | | ▲ | ▲ | ▲ | | | | ▲ | | ▲ | ▲ | ▲ |
| Solid Brick/Block | | | | | | | ▲ | ▲ | ▲ | | | | ▲ | | ▲ | ▲ | ▲ |
| Hollow Brick/Block | | | | | | | ▲ | ▲ | ▲ | | | | | | | ▲ | ▲ |
| Aerated Concrete | | | | | | | ▲ | ▲ | ▲ | | | | | | | ▲ | ▲ |
| Insulation | | | | | | | | | | | | | | | | | |
| Plasterboard | | | | | | | | | | | | | | | | | |
| Timber or Steel | | | | | | | | | | | | | | | | | |
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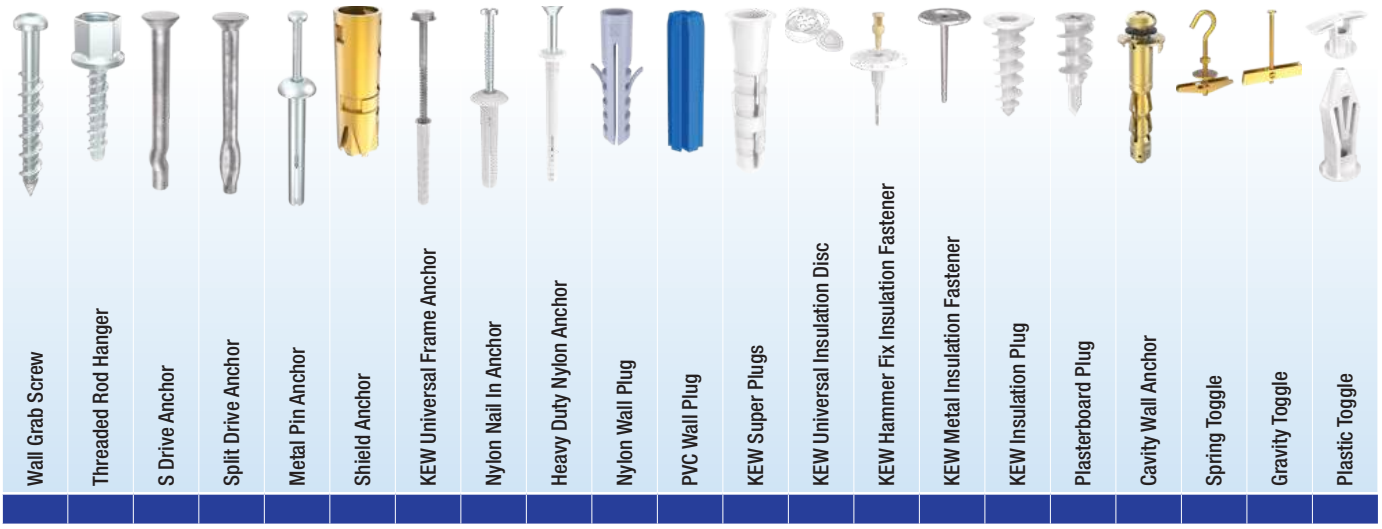
* Refer to individual Product Technical Data Sheet for the line specific approval levels.



| Wall Grab Screw | Threaded Rod Hanger | S Drive Anchor | Split Drive Anchor | Metal Pin Anchor | Shield Anchor | KEW Universal Frame Anchor | Nylon Nail In Anchor | Heavy Duty Nylon Anchor | Nylon Wall Plug | PVC Wall Plug | KEW Super Plugs | KEW Universal Insulation Disc | KEW Hammer Fix Insulation Fastener | KEW Metal Insulation Fastener | KEW Insulation Plug | Plasterboard Plug | Cavity Wall Anchor | Spring Toggle | Gravity Toggle | Plastic Toggle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 138 | 140 | 146 | 152 | 156 | 158 | 160 | 163 | 166 | 170 | 172 | 174 | 178 | 180 | 182 | 184 | 186 | 188 | 190 | 192 | 194 |

# Coatings & Materials

**Coatings are primarily applied to enhance corrosion resistance and minimise friction during installation. In addition, coatings may also serve an aesthetic function in applications where visual appearance is important.**

| COATING/ MATERIAL | DESCRIPTION |
|---|---|
| Plain/ Black/ Natural | Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added. |
| Zinc Plated | Zinc Plating is a process of depositing a thin layer of zinc onto the surface of a steel object through electroplating. The steel object is then passivated with a transparent conversion layer. |
| Zinc Yellow Passivate | Zinc Yellow Passivate is a process of depositing a thin layer of zinc onto the surface of a steel object through electroplating. The steel object is then passivated with a yellow conversion layer. |
| Mechanical Galvanised | Mechanical Galvanised is a process by which a steel object is tumbled with zinc powder and glass beads in a rotating drum. The mechanical action causes the zinc powder to adhere to the surface of the steel. |
| Hot Dipped Galvanised | Hot Dipped Galvanised is a process of dipping a steel object into a molten bath of zinc (455°- 480°C). The molten zinc adheres to the anchor surface covering all the corners and edges. |
| Ceramic Coated | Ceramic Coated is a multi-layer coating with a zinc base coat and ceramic topcoat. Ceramic top coat hardness makes it resistance to abrasion. |
| B8® Coating | B8® is a high-performance complex alloy coating system that offers 2x the corrosion protection of class 4 galvanising. High abrasion resistance properties make it 8x harder than class 4 galvanised. |
| Stainless Steel 304 | 304 is the most commonly used stainless steel. It is an austenitic, stainless steel that offers excellent strength and corrosion resistance. |
| Stainless Steel 316 | 316 is a Marine Grade Stainless Steel. It contains 2-3% Molybdenum which provides higher corrosion protection than 304 Stainless Steel. |

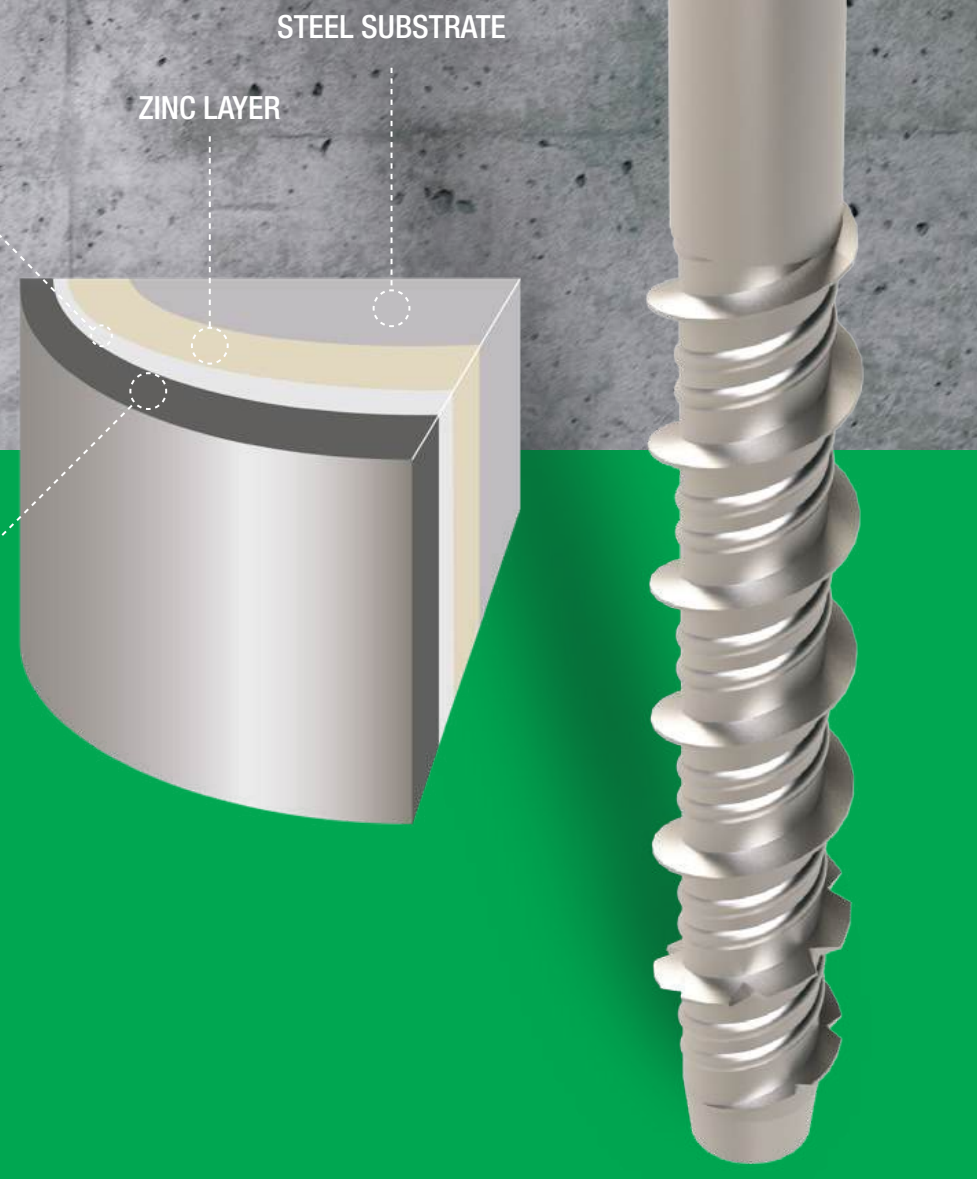
NOTE: Galvanising is a general term that should not be used without further reference i.e. mechanical galvanising or hot dipped galvanising.

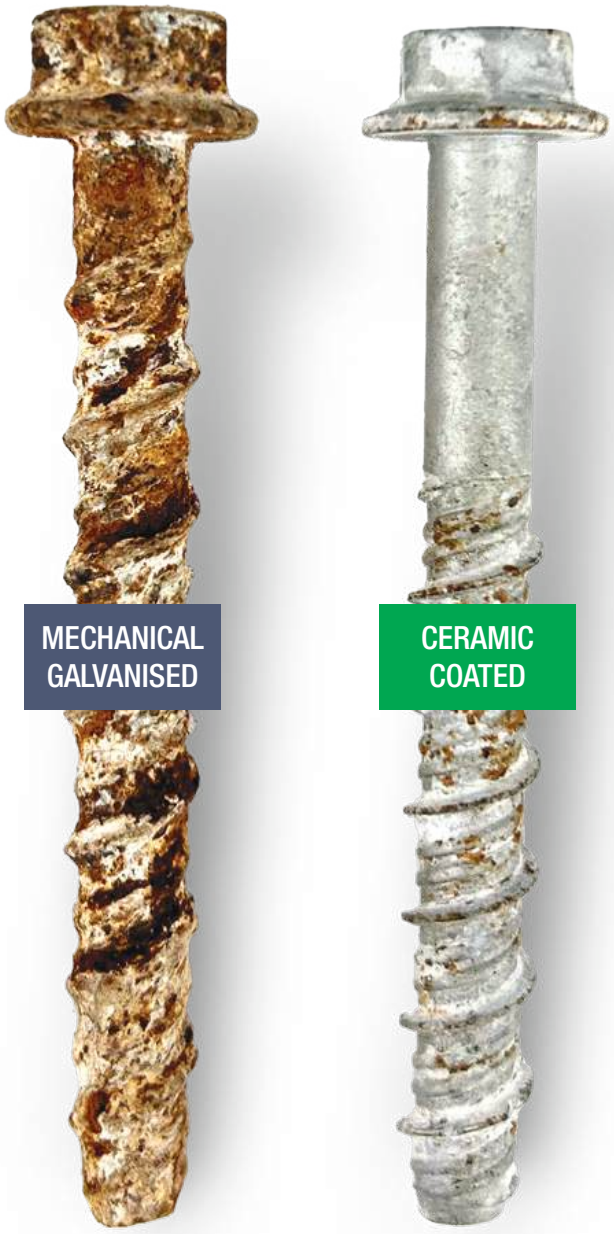
| OVERVIEW | CORROSION RESISTANCE | |
|---|---|---|
| Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation. | – | PLAIN |
| Bremick Zinc Plated Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick Zinc Plating complies with AS1789. | Low | ZINC PLATED |
| Bremick Zinc Yellow Passivate Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick Zinc Yellow Passivation complies with AS1789. | Low | ZINC YELLOW |
| Bremick Mechanical Galvanised Coating provides a moderate/high level of corrosion protection and is recommended for damp external application. Bremick Mechanical Galvanised is both a Class 2 & Class 3 to ISO 12683. | Moderate/High | MECHANICAL GALVANISED |
| Bremick Hot Dipped Galvanised Coating provides a moderate/high level of corrosion protection and is recommended for damp external application. Bremick Hot Dipped Galvanising complies with AS/NZS 1214. | Moderate/High | HOT DIPPED GALVANISED |
| Bremick Ceramic Coating provides a high level of corrosion protection and is recommended for damp external application. Bremick Ceramic Coating is a Proprietary Coating System. | High | CERAMIC COATED |
| Bremick B8® Coating provides a very high level of corrosion protection and is recommended for damp external application. Bremick B8® Coating is a Class 4/Category 5 Proprietary Coating System. | Very High | B8® COATING |
| Bremick 304 Stainless Steel provides an extreme level of protection and is recommended for wet external application. Bremick 304 Stainless Steel is an austenitic stainless steel that offers all round performance. | Extreme | STAINLESS STEEL 304 |
| Bremick 316 Stainless Steel provides the ultimate level of protection and is recommended for external applications and marine environments. | Ultimate | STAINLESS STEEL 316 |

CERAMIC COATED

# CERAMIC COATED

With decades of proven use in harsh conditions, Bremick Ceramic Coating will endure your application conditions where a Class 3 fixing is appropriate






# NEUTRAL SALT SPRAY TEST AFTER 1000 HOURS

Tested in accordance with ASTM B117 Accelerated Salt Spray Test

**Over 2x longer performance than Mechanical Galvanised**

# BENEFITS OF CERAMIC COATING

### Widely Used in the European Market
Tested and proven performance for over 40 years

### Abrasion Resistance
Hardness prevents coating loss when driven into hard materials such as masonry and concrete

### Corrosion Resistance
As a class 3 proprietary coating, Ceramic Coating is an ideal alternative to Hot Dipped and Mechanical Galvanising

### Treated Timber Approved
Suitable for use in treated pine / resistant to the corrosive effects of treated timbers

### Contact Corrosion Resistance
Reduced risk of galvanic corrosion from dissimilar metal contact

# NCC Compliant vs Non Safety Critical Applications

**Bremick offers an extensive range of high-performance masonry anchoring products, specifically designed to meet the demanding needs of various construction applications.**


Our products cater to a diverse range of projects, including those that require safety critical and National Construction Code (NCC) compliant solutions, as well as those in non safety critical applications. Our masonry anchors are engineered for durability, reliability, and ease of installation, ensuring that they meet or exceed industry standards for performance and safety.

Whether you are working on structural elements that demand the highest level of safety and compliance or lower risk applications, Bremick's anchors provide the ideal solution for securing fixtures to concrete, brick, block, stone and plasterboard.

## NCC Compliant anchors for Safety Critical Applications

A comprehensive range of ETA Certified product conforming to AS 5216:2021, delivering NCC Compliant concrete anchoring solutions for Safety Critical Applications.

# Non Safety Critical Applications

Ideal for general construction and renovation applications where NCC Compliance is not required – durability and high performance are still essential.

# What are NCC Compliant Anchors

AS 5216:2021 is the Australian Standard for "Design of Post-installed and Cast-in Fastenings in Concrete". It provides a consistent, nationally recognised framework for the selection, design, and installation of fasteners (such as anchors and bolts) used in concrete — especially in safety critical applications.

## What is AS 5216:2021?

AS 5216:2021 is the Australian Standard for the design of post-installed and cast-in anchors in concrete that applies to safety critical applications.

## What is a safety critical application?

Applications where there is a risk to the welfare of people or considerable economic loss in the event of failure.

## What is covered by AS 5216:2021

Post-installed and cast-in fastenings used to transmit loads to concrete for safety critical applications.

B1D4 Determination of structural resistance of materials and form of construction [2019: B1.4]

The structural resistance of materials and forms of construction must be determined in accordance with the following, as appropiate:

(b) Concrete:
(i) Concrete construction (including reinfored and prestressed concrete): AS 3600
(ii) Autoclaved aerated concrete: AS 5146.1 and AS5146.3.
(iii) Post-installed and cast-in fastenings: AS 5216.

## What's the role of the National Construction Code (NCC)?

The National Construction Code (NCC) is Australia's primary set of technical design and construction provisions for buildings. It sets minimum standards for safety, health, amenity, accessibility, and sustainability.

Whilst the NCC itself is not a law, it is given legal effect through legislation in each state and territory in Australia - hence compliance with the NCC is mandatory.

## Is AS 5216:2021 referenced in the National Construction Code (NCC)?

Yes, AS 5216:2021 is referenced in the NCC, thus compliance is a mandatory requirement.

## A brief explanation of AS 5216:2021

This standard specifies minimum requirements for the design of fastenings used to transmit loads to concrete for safety critical applications.

Note it has a tight scope:
Concrete only (not brick, block etc.)
Not for temporary loads.
Not for bracing, panel props etc.

There are two path ways for manufacturers to meet the requirements of the standard:

- Conduct a significant evaluation program as outlined in the standard (complying).
- Provide product that has ETA (European Technical Assessment) certification (conforming).

The Bremick suite of post-installed fasteners (anchors) is ETA certified to conform to AS 5216:2021.

## Supporting our customers – modern product information

**Did you notice these symbols?**
When you see these symbols on our technical and marketing information you know that the product is...

National Construction Code

**NCC Compliant**
because it is:

AS5216

**AS5216 Conforming**
due to it being:

ETA

**ETA Certified**



## European Technical Approval Terminology

**OPTION 7, 8**
Uncracked Concrete

Product has been evaluated in uncracked concrete for structural and non-structural applications.

**OPTION 1**
Cracked Concrete

Product has been evaluated in cracked and uncracked concrete for structural and non-structural applications.

**C1**
SEISMIC FIXING

Applications with a risk of seismic action/ hazard zones

Adds additional testing into 0.5mm width cracks.

**C1 C2**
SEISMIC FIXING

Applications with a risk of seismic action/ hazard zones

Adds additional testing into 0.8mm width cracks.

**FIRE RATED**

Testing to assess product capacity at time intervals when exposed to a standardised fire test program.

# NCC Compliant Anchoring

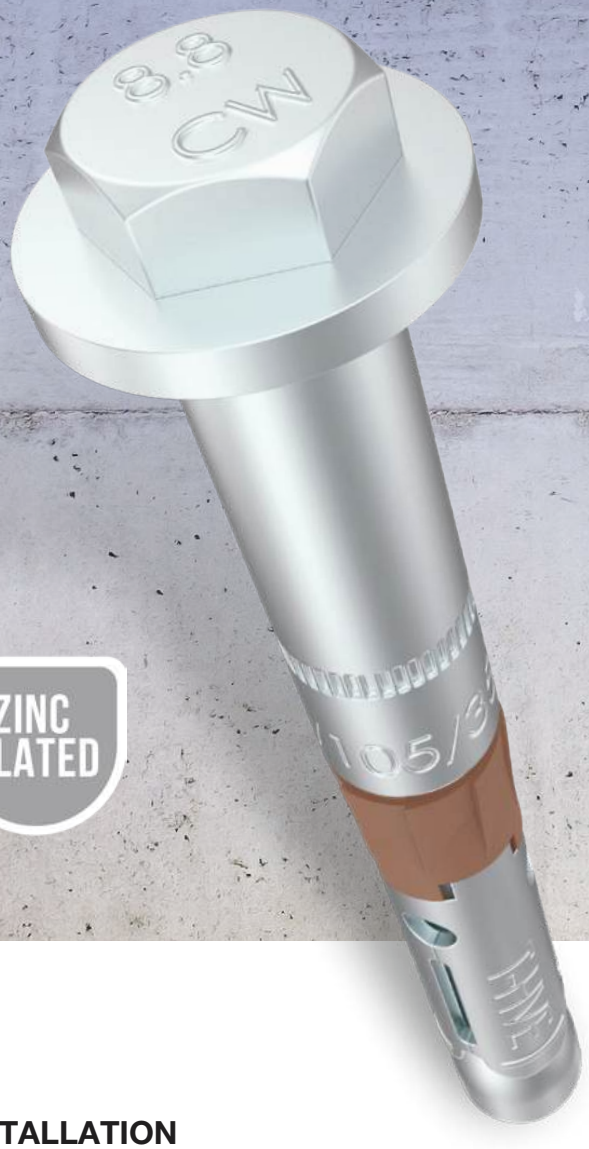
| | Product Type | | Material/ Coating | Size Range |
|---|---|---|---|---|
| SAFETY ANCHOR | Hex Head |  | Zinc Plated | M6 – M16 |
| | Countersunk Head |  | Zinc Plated | M6 – M12 |
| SCREW ANCHOR | Flange Hex Head |  | Zinc Plated | 6mm – 12mm |
| | Flange Hex Head |  | Ceramic Coated | 6mm – 12mm |
| | Flange Hex Head |  | BiMetal 316 | 6mm – 8mm |
| | Flange Hex Head |  | BiMetal 316 | 8mm – 12mm |
| | Countersunk Head |  | Ceramic Coated | 6mm – 10mm |
| | Countersunk Head |  | BiMetal 316 | 6mm |
| | Countersunk Head |  | BiMetal 316 | 8mm – 10mm |
| | Rod Hanger |  | Zinc Plated | M8 & M10 Internal Thread |
| | External Thread |  | Ceramic Coated | M8 or M10 Internal Thread |
| | Pan Head |  | Ceramic Coated | 6mm |
| THROUGH BOLT | Hex Nut & Washer |  | Zinc Plated | M10 – M20 |
| | Hex Nut & Washer |  | Ceramic Coated | M8 – M16 |
| | Hex Nut & Washer |  | Stainless Steel | M8 – M16 |
| DROP IN ANCHOR | Internal Thread |  | Zinc Plated | M6 – M16 |
| SPLICE ANCHOR | Round Head |  | Zinc Plated | 6mm |
| KEW UNIVERSAL FRAME ANCHOR | Hex Head |  | Zinc Plated | 10mm |
| | Hex Head |  | Stainless Steel | 10mm |
| | Countersunk Head |  | Zinc Plated | 10mm |
| | Countersunk Head |  | Stainless Steel | 10mm |
| CHEMICAL ANCHORING | Anchor Stud - Chisel Point (5.8) |  | Zinc Yellow | M8 – M24 |
| | Anchor Stud - Chisel Point (5.8) |  | Hot Dipped Galvanised | M8 – M24 |
| | Anchor Stud - Chisel Point (5.8) |  | Stainless Steel | M8 – M24 |
| | Anchor Stud - Flat Cut Point (5.8) |  | Zinc Yellow | M12 – M20 |
| | Anchor Stud - Flat Cut Point (5.8) |  | Hot Dipped Galvanised | M10 – M24 |
| | Anchor Stud - Flat Cut Point (8.8) |  | Hot Dipped Galvanised | M12 – M30 |
| | Injection - Pure Epoxy |  | – | 585ml |
| | Injection - Vinylester |  | – | 300ml & 410ml |
| | Injection - Polyester |  | – | 300ml & 410ml |
| | Spin Capsule - Epoxy Acrylate |  | – | Suits M8 – M24 |

| National Construction Code | AS5216 | ETA | Option 7 Uncracked Concrete | Option 1 Cracked Concrete | C1 SEISMIC FIXING | C2 SEISMIC FIXING | FIRE RATED |
|---|---|---|---|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | △ | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | △ | F120 |
| ▲ | ▲ | ▲ | ETAG 001, Part 6 Multiple Fixings – Non Structural Applications | | – | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | △ | F120 |
| ▲ | ▲ | ▲ | ETAG 001, Part 6 Multiple Fixings – Non Structural Applications | | – | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | – | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | △ | △ | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | △ | F120 |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | △ | F120 |
| ▲ | ▲ | ▲ | ▲ | – | – | – | F120 |
| ▲ | ▲ | ▲ | ETAG 001, Part 6 Multiple Fixings – Non Structural Applications | | – | – | F120 |
| ▲ | ▲ | ▲ | ETAG 020 Plastic anchor for multiple use in concrete and masonry for non structural applications. | – | – | – | – |
| ▲ | ▲ | ▲ | | – | – | – | – |
| ▲ | ▲ | ▲ | | – | – | – | – |
| ▲ | ▲ | ▲ | | – | – | – | – |
| Bremick Chemical Anchor Studs are used in conjunction with the Chemical Injection & Spin Capsule adhesives to produce NCC Compliant anchoring solutions. Please refer to the individual chemical product's Tech Data Sheet (TDS) for product line dependant compliance information. | | | | | | | |
| ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | △ | △ |
| ▲ | ▲ | ▲ | ▲ | ▲ | – | – | – |
| ▲ | ▲ | ▲ | △ | – | – | – | – |
| ▲ | ▲ | ▲ | Option 8 | – | – | – | – |

Key: ▲ Criteria is valid for all product codes.
△ Criteria validity may be limited to specific lines within the range, require accessory to achieve etc. Check product Technical Data Sheet (TDS) to confirm.

NCC COMPLIANT

# SAFETY ANCHOR
## HEX HEAD




ZINC PLATED

### Features & Benefits

- Ideal for safety critical & complex load case applications
- Intended working life of 50 years
- Comprehensive range from M6 to M16
- Highest ETA rating (Seismic C2) for all anchor sizes
- Fire rating to 120 minutes for all anchor sizes

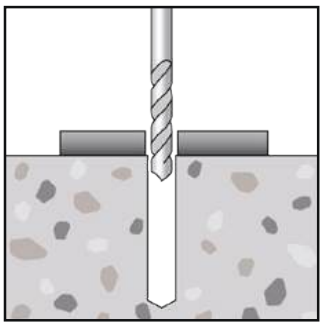
### Application / Trades

- Structural steel connection to concrete
- Crane rails
- Elevator guide rails
- Machinery hold down
- Plant room equipment hold down

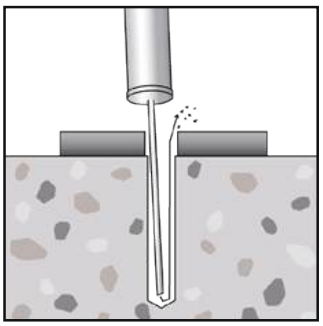
Large Ø structural washer for optimal load transfer

Expansion sleeve & conical nut designed for reliable, long term perforamnce

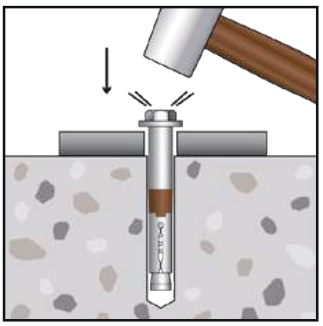
### INSTALLATION



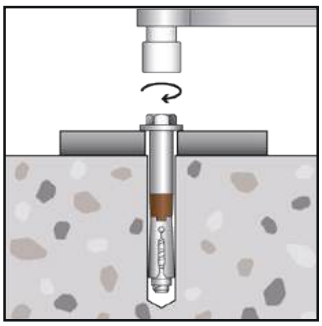
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# SAFETY ANCHOR
# HEX HEAD

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum concrete thickness* (mm) | Maximum fixture thickness* (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\ max}$ | $d_f$ |
| AHVE0110070 | 50 | M6 | 70 | 10 | 80 | 110 | 5 | 12 |
| AHVE0110080 | 50 | | 80 | | | | 15 | |
| AHVE0110100 | 50 | | 100 | | | | 35 | |
| AHVE0110120 | 25 | | 120 | | | | 55 | |
| AHVE0112080 | 50 | M8 | 80 | 12 | 90 | 120 | 10 | 14 |
| AHVE0112100 | 25 | | 100 | | | | 30 | |
| AHVE0112120 | 25 | | 120 | | | | 50 | |
| AHVE0112140 | 25 | | 140 | | | | 70 | |
| AHVE0116100 | 20 | M10 | 100 | 16 | 100 | 140 | 20 | 18 |
| AHVE0116120 | | | 120 | | | | 40 | |
| AHVE0116140 | | | 140 | | | | 60 | |
| AHVE0116160 | | | 160 | | | | 80 | |
| AHVE0118120 | 10 | M12 | 120 | 18 | 120 | 180 | 20 | 20 |
| AHVE0118150 | | | 150 | | | | 50 | |
| AHVE0118170 | | | 170 | | | | 70 | |
| AHVE0118200 | | | 200 | | | | 100 | |
| AHVE0124140 | 5 | M16 | 140 | 24 | 140 | 210 | 20 | 26 |
| AHVE0124170 | | | 170 | | | | 50 | |
| AHVE0124200 | | | 200 | | | | 80 | |
| AHVE0124220 | | | 220 | | | | 100 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

# SAFETY ANCHOR
# HEX HEAD

ZINC PLATED

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix, max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
| | $l_t$ | $t_{fix, max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| AHVE0110070 | 70 | 5 | 80 | 65 | 10 | 15 | 10.7 | 11.0 |
| AHVE0110080 | 80 | 15 | | | | | | |
| AHVE0110100 | 100 | 35 | | | | | | |
| AHVE0110120 | 120 | 55 | | | | | | |
| AHVE0112080 | 80 | 10 | 90 | 70 | 13 | 30 | 13.0 | 17.2 |
| AHVE0112100 | 100 | 30 | | | | | | |
| AHVE0112120 | 120 | 50 | | | | | | |
| AHVE0112140 | 140 | 70 | | | | | | |
| AHVE0116100 | 100 | 20 | 100 | 80 | 17 | 50 | 16.3 | 29.7 |
| AHVE0116120 | 120 | 40 | | | | | | |
| AHVE0116140 | 140 | 60 | | | | | | |
| AHVE0116160 | 160 | 80 | | | | | | |
| AHVE0118120 | 120 | 20 | 120 | 100 | 19 | 100 | 28.5 | 40.0 |
| AHVE0118150 | 150 | 50 | | | | | | |
| AHVE0118170 | 170 | 70 | | | | | | |
| AHVE0118200 | 200 | 100 | | | | | | |
| AHVE0124140 | 140 | 20 | 140 | 120 | 24 | 160 | 36.6 | 73.8 |
| AHVE0124170 | 170 | 50 | | | | | | |
| AHVE0124200 | 200 | 80 | | | | | | |
| AHVE0124220 | 220 | 100 | | | | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity - no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

# HEAVY DUTY TORQUE CONTROLLED EXPANSION ANCHOR

When high capacity and reliable long term performance are critical, Bremick Safety Anchors are designed to deliver. Engineered for the most severe load conditions. Seismic C2 performance is available for all sizes.


PROPERTY CLASS
8.8 HEX HEAD BOLT

LARGE Ø STRUCTURAL WASHER

HIGH TENSILE STEEL FOR SUPERIOR STRENGTH

CLEARLY MARKED PRODUCT INFORMATION

PATENTED ANTI ROTATION RING

EXPANSION SLEEVE AND CONE NUT WORK TOGETHER TO DELIVER RELIABLE LONG TERM PERFORMANCE

National Construction Code AS5216

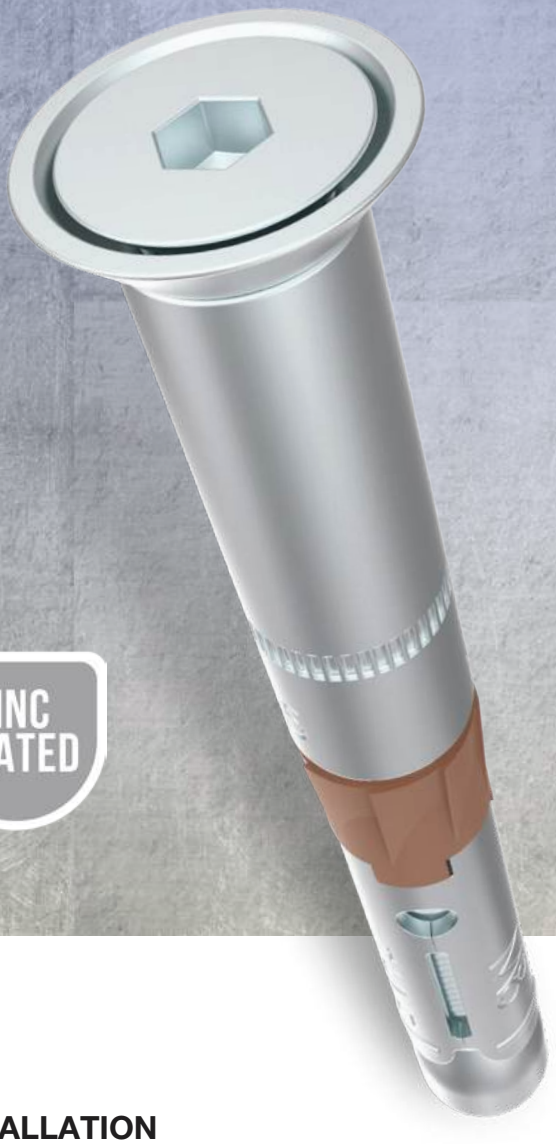
ETA

C1 C2 SEISMIC FIXING

FIRE RATED

NCC COMPLIANT

# SAFETY ANCHOR
## COUNTERSUNK HEAD



ZINC PLATED

### Features & Benefits

- Ideal for safety critical & complex load case applications
- Intended working life of 50 years
- Comprehensive range from M6 to M12
- Highest ETA rating (Seismic C2) for all anchor sizes
- Fire rating to 120 minutes for all anchor sizes

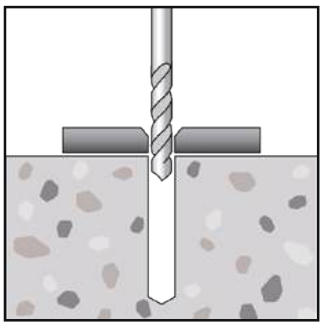
### Application / Trades

- Structural steel connection to concrete
- Crane rails
- Elevator guide rails
- Machinery hold down
- Plant room equipment hold down

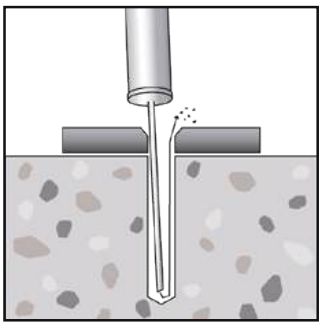
Countersunk head is ideal for public access spaces

Expansion sleeve & conical nut designed for reliable, long term perforamnce

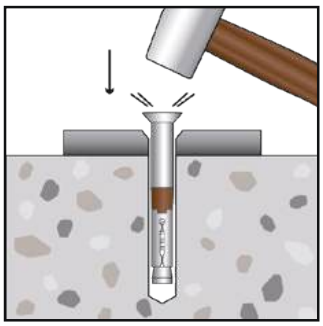
## INSTALLATION



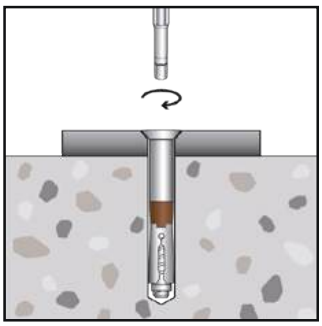
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a driver bit, expand anchor by tightening to the specified installation torque.

# SAFETY ANCHOR
# COUNTERSUNK HEAD

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth* @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum concrete thickness* (mm) $h_{min}$ | Maximum fixture thickness* (mm) $t_{fix,\,max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| AHVE0310085 | 50 | M6 | 85 | 10 | 80 | 110 | 20 | 12 |
| AHVE0310105 | | | 105 | | | | 40 | |
| AHVE0310125 | | | 125 | | | | 60 | |
| AHVE0312085 | 50 | M8 | 85 | 12 | 90 | 120 | 15 | 14 |
| AHVE0312105 | 25 | | 105 | | | | 35 | |
| AHVE0312125 | 25 | | 125 | | | | 55 | |
| AHVE0316110 | 20 | M10 | 110 | 16 | 100 | 140 | 30 | 18 |
| AHVE0316130 | | | 130 | | | | 50 | |
| AHVE0318120 | 10 | M12 | 120 | 18 | 120 | 180 | 20 | 20 |
| AHVE0318140 | | | 140 | | | | 40 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\,max}$ | Drill hole depth @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum embedment depth (mm) $h_{nom}$ | Hex Allen key size AF (mm) H | Installation torque (Nm) $T_{inst}$ | Design Capacities: Uncracked concrete - tension (kN) $N_{Rd}$ | Design Capacities: Uncracked concrete - shear (kN) $V_{Rd}$ |
|---|---|---|---|---|---|---|---|---|
| AHVE0310085 | 85 | 20 | 80 | 65 | 4 | 15 | 10.7 | 11.0 |
| AHVE0310105 | 105 | 40 | | | | | | |
| AHVE0310125 | 125 | 60 | | | | | | |
| AHVE0312085 | 85 | 15 | 90 | 70 | 5 | 30 | 13.0 | 17.2 |
| AHVE0312105 | 105 | 35 | | | | | | |
| AHVE0312125 | 125 | 55 | | | | | | |
| AHVE0316110 | 110 | 30 | 100 | 80 | 6 | 50 | 16.3 | 29.7 |
| AHVE0316130 | 130 | 50 | | | | | | |
| AHVE0318120 | 120 | 20 | 120 | 100 | 8 | 100 | 28.5 | 40.0 |
| AHVE0318140 | 140 | 40 | | | | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## FLANGE HEX HEAD

ZINC PLATED

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating - from minimum Option 1 up to Seismic C2, see Range table for details
- Fire rating to 120 minutes for all anchor sizes
- Ideal for close to edge & close anchor spacing applications

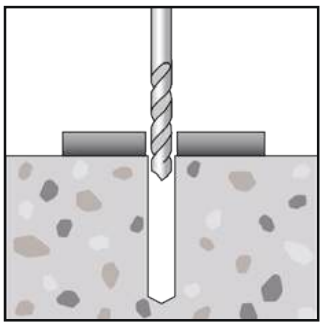
### Application / Trades

- Timber bottom plate hold down
- Warehouse racking
- Hand rails
- Steel framing
- Machinery hold down

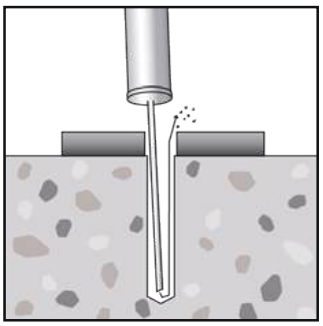
High tensile steel for superior strength

Triple Hi-Lo thread for improved tensile performance

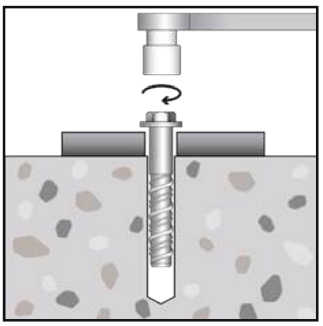
## INSTALLATION



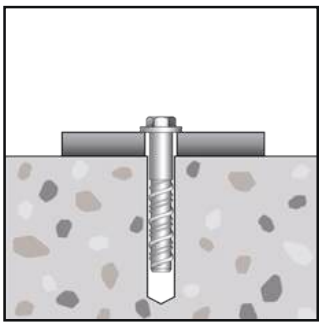
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



Anchor is now correctly set.

# SCREW ANCHOR
# FLANGE HEX HEAD

ZINC PLATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth** @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum concrete thickness** (mm) $h_{min}$ | Maximum fixture thickness** (mm) $t_{fix,\,max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ASBMZ06045ETA | 100 | Seismic C1 | 45 | 6 | 50 | 100 | 5 | 9 |
| ASBMZ06060ETA | | | 60 | | 50 | | 20 | |
| ASBMZ06080ETA | | | 80 | | 50 | | 40 | |
| ASBMZ06100ETA | | | 100 | | 65 | | 45 | |
| ASBMZ08055ETA | 100 | Option 1 | 55 | 8 | 60 | 100 | 5 | 12 |
| ASBMZ08065ETA | | Option 1* | 65 | | 60 | | 15 | |
| ASBMZ08075ETA | | Option 1* | 75 | | 60 | | 25 | |
| ASBMZ08110ETA | | Seismic C1 & C2 | 110 | | 70 | | 50 | |
| ASBMZ10065ETA | 50 | Option 1 | 65 | 10 | 70 | 100 | 5 | 14 |
| ASBMZ10075ETA | | Option 1 | 75 | | 70 | 100 | 15 | |
| ASBMZ10100ETA | | Option 1* | 100 | | 85 | 105 | 30 | |
| ASBMZ10120ETA | | Option 1* | 120 | | 85 | 105 | 50 | |
| ASBMZ10140ETA | | Seismic C1 & C2 | 140 | | 100 | 130 | 55 | |
| ASBMZ12090ETA | 50 | Option 1 | 90 | 12 | 90 | 120 | 15 | 16 |
| ASBMZ12110ETA | | Option 1* | 110 | | 90 | 120 | 35 | |
| ASBMZ12150ETA | | Seismic C1 & C2 | 150 | | 120 | 170 | 45 | |

**Note:** * Seismic C1 & C2 ratings available for this anchor with increased embedment depth – contact Bremick for details.

** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:

– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

# SCREW ANCHOR
# FLANGE HEX HEAD

ZINC PLATED

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix, max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
| | $l_t$ | $t_{fix, max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| ASBMZ06045ETA | 45 | 5 | 50 | 40 | 10 | 15 | 3.8 | 6.2 |
| ASBMZ06060ETA | 60 | 20 | 50 | 40 | | | 3.8 | 6.2 |
| ASBMZ06080ETA | 80 | 40 | 50 | 40 | | | 3.8 | 6.2 |
| ASBMZ06100ETA | 100 | 45 | 65 | 55 | | | 6.0 | 6.0 |
| ASBMZ08055ETA | 55 | 5 | 60 | 50 | 13 | 25 | 7.4 | 10.7 |
| ASBMZ08065ETA | 65 | 15 | 60 | 50 | | | 7.4 | 10.7 |
| ASBMZ08075ETA | 75 | 25 | 60 | 50 | | | 7.4 | 10.7 |
| ASBMZ08110ETA | 110 | 50 | 70 | 60 | | | 10.0 | 12.0 |
| ASBMZ10065ETA | 65 | 5 | 70 | 60 | 15 | 50 | 9.7 | 11.6 |
| ASBMZ10075ETA | 75 | 15 | 70 | 60 | | | 9.7 | 11.6 |
| ASBMZ10100ETA | 100 | 30 | 85 | 70 | | | 12.4 | 14.9 |
| ASBMZ10120ETA | 120 | 50 | 85 | 70 | | | 12.4 | 14.9 |
| ASBMZ10140ETA | 140 | 55 | 100 | 85 | | | 21.0 | 20.4 |
| ASBMZ12090ETA | 90 | 15 | 90 | 75 | 16 | 60 | 14.3 | 25.8 |
| ASBMZ12110ETA | 110 | 35 | 90 | 75 | | | 14.3 | 25.8 |
| ASBMZ12150ETA | 150 | 45 | 120 | 105 | | | 29.5 | 32.0 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## FLANGE HEX HEAD

CERAMIC COATED

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating - from minimum Option 1 up to Seismic C2, see Range table for details
- Fire rating to 120 minutes for all anchor sizes
- Ideal for close to edge & close anchor spacing applications

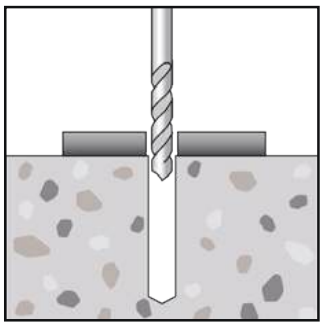
### Application / Trades

- Timber bottom plate hold down
- Warehouse racking
- Hand rails
- Steel framing
- Machinery hold down

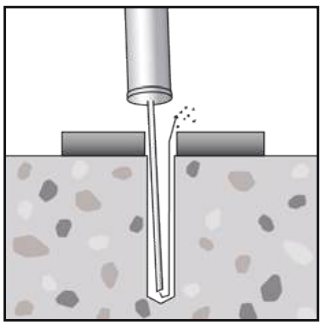
High tensile steel for superior strength

Triple Hi-Lo thread for improved tensile performance

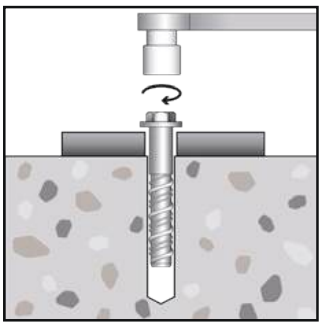
## INSTALLATION



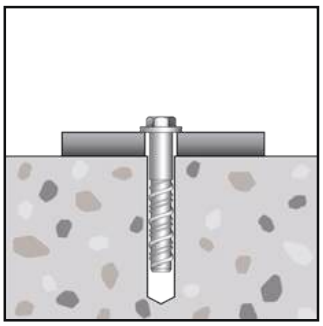
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



Anchor is now correctly set.

# SCREW ANCHOR
# FLANGE HEX HEAD

CERAMIC COATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth** @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum concrete thickness** (mm) $h_{min}$ | Maximum fixture thickness** (mm) $t_{fix,\,max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ASBMR06045ETA | 100 | Seismic C1 | 45 | 6 | 50 | 100 | 5 | 9 |
| ASBMR06060ETA | | | 60 | | 50 | | 20 | |
| ASBMR06080ETA | | | 80 | | 50 | | 40 | |
| ASBMR06100ETA | | | 100 | | 65 | | 45 | |
| ASBMR08065ETA | 100 | Option 1* | 65 | 8 | 60 | 100 | 15 | 12 |
| ASBMR08075ETA | | Option 1* | 75 | | 60 | | 25 | |
| ASBMR08110ETA | | Seismic C1 & C2 | 110 | | 70 | | 50 | |
| ASBMR10065ETA | 50 | Option 1 | 65 | 10 | 70 | 100 | 5 | 14 |
| ASBMR10075ETA | | Option 1 | 75 | | 70 | 100 | 15 | |
| ASBMR10100ETA | | Option 1* | 100 | | 85 | 105 | 30 | |
| ASBMR10120ETA | | Option 1* | 120 | | 85 | 105 | 50 | |
| ASBMR10140ETA | | Seismic C1 & C2 | 140 | | 100 | 130 | 55 | |
| ASBMR12090ETA | 50 | Option 1 | 90 | 12 | 90 | 120 | 15 | 16 |
| ASBMR12110ETA | 50 | Option 1* | 110 | | 90 | 120 | 35 | |
| ASBMR12130ETA | 20 | Option 1* | 130 | | 90 | 120 | 55 | |
| ASBMR12150ETA | 20 | Seismic C1 & C2 | 150 | | 120 | 170 | 45 | |

**Note:** * Seismic C1 & C2 ratings available for this anchor with increased embedment depth – contact Bremick for details.

** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

# SCREW ANCHOR
# FLANGE HEX HEAD

CERAMIC COATED

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix, max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
| | $l_t$ | $t_{fix, max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| ASBMR06045ETA | 45 | 5 | 50 | 40 | 10 | 15 | 3.8 | 6.2 |
| ASBMR06060ETA | 60 | 20 | 50 | 40 | | | 3.8 | 6.2 |
| ASBMR06080ETA | 80 | 40 | 50 | 40 | | | 3.8 | 6.2 |
| ASBMR06100ETA | 100 | 45 | 65 | 55 | | | 6.0 | 6.0 |
| ASBMR08065ETA | 65 | 15 | 60 | 50 | 13 | 25 | 7.4 | 10.7 |
| ASBMR08075ETA | 75 | 25 | 60 | 50 | | | 7,4 | 10.7 |
| ASBMR08110ETA | 110 | 50 | 70 | 60 | | | 10.0 | 12.0 |
| ASBMR10065ETA | 65 | 5 | 70 | 60 | 15 | 50 | 9.7 | 11.6 |
| ASBMR10075ETA | 75 | 15 | 70 | 60 | | | 9.7 | 11.6 |
| ASBMR10100ETA | 100 | 30 | 85 | 70 | | | 12.4 | 14.9 |
| ASBMR10120ETA | 120 | 50 | 85 | 70 | | | 12.4 | 14.9 |
| ASBMR10140ETA | 140 | 55 | 100 | 85 | | | 21.0 | 20.4 |
| ASBMR12090ETA | 90 | 15 | 90 | 75 | 16 | 60 | 14.3 | 25.8 |
| ASBMR12110ETA | 110 | 35 | 90 | 75 | | | 14.3 | 25.8 |
| ASBMR12130ETA | 130 | 55 | 90 | 75 | | | 14.3 | 25.8 |
| ASBMR12150ETA | 150 | 45 | 120 | 105 | | | 29.5 | 32.0 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## FLANGE HEX HEAD

STAINLESS STEEL 316

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- BiMetal construction combines the concrete thread cutting capability of hardened boron steel with the corrosion resistance of 316 Stainless Steel
- ETA rating - Option 1 & RNSS
- Fire rating to 120 minutes for all anchor sizes

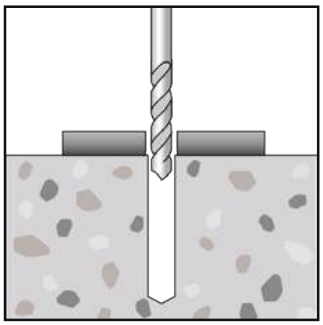
### Application / Trades

- Balustrading
- Hand rails
- Coastal / marine architectural fixings
- Aluminium framing

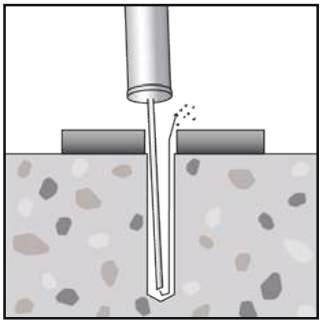
High tensile steel for superior strength

Tapered tip for simpler installation

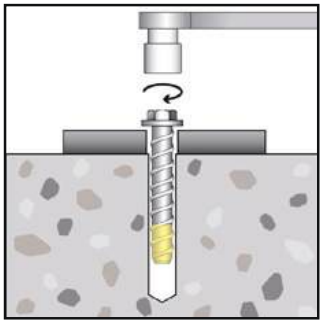
## INSTALLATION



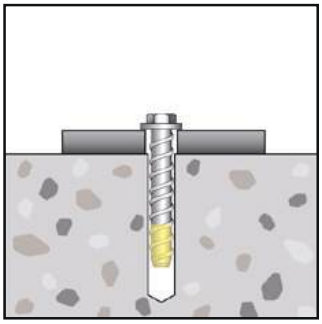
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

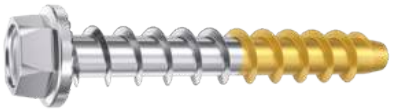


Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



Anchor is now correctly set.

# SCREW ANCHOR
# FLANGE HEX HEAD



STAINLESS STEEL 316

## RANGE

| Product Code | Pack Qty | ETA Certification level | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth* @ $t_{fix,\,max}$ (mm) | Minimum concrete thickness* (mm) | Maximum fixture thickness* (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\,max}$ | $d_f$ |
| ASBM606075ETA | 50 | RNSS | 75 | 6 | 80 | 110 | 5 | 9 |
| ASBM608070ETA | 50 | RNSS | 70 | 8 | 65 | 100 | 18 | 11 |
| ASBM608090ETA | | Seismic C1 | 90 | | 95 | 125 | 5 | |
| ASBM610105ETA | 20 | Seismic C1 | 105 | 10 | 110 | 140 | 5 | 13 |
| ASBM610120ETA | | | 120 | | | | 20 | |
| ASBM612125ETA | 20 | Seismic C1 | 125 | 12 | 130 | 170 | 5 | 15 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ – $t_{fix}$ actual).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\,max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design capacities RNSS Load in any direction, cracked or uncracked concrete** (kN) |
|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $F_{Rd}$ |
| ASBM606075ETA | 75 | 5 | 80 | 70 | 10 | 15 | 3.0 |
| ASBM608070ETA | 70 | 18 | 65 | 52 | 13 | 40 | 1.5 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

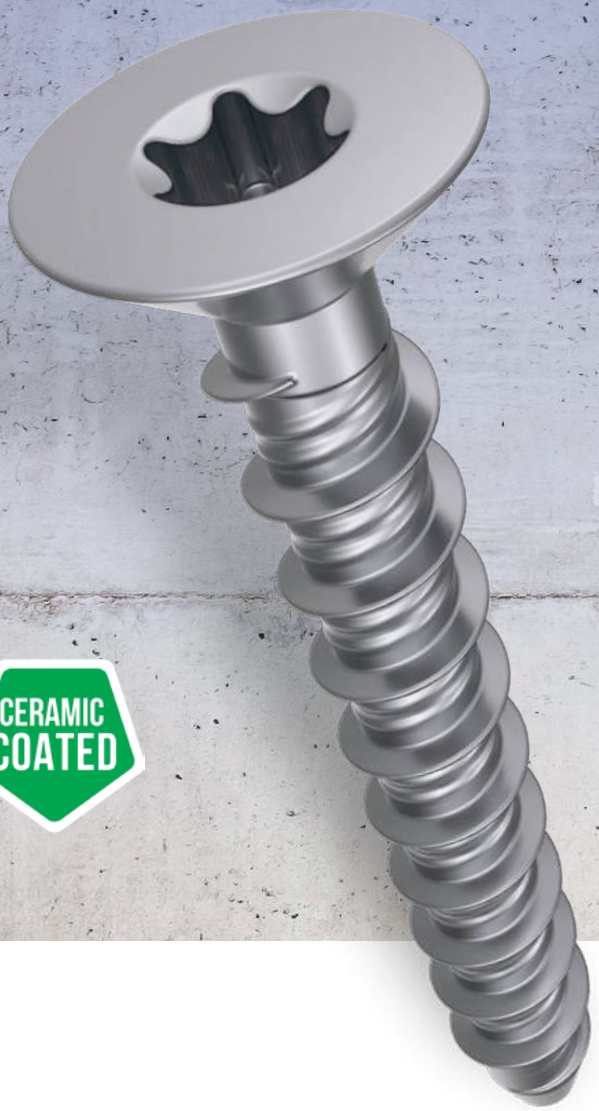
| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\,max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design capacities Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd,\,ucr}$ | $V_{Rd,\,ucr}$ |
| ASBM608090ETA | 90 | 5 | 95 | 85 | 13 | 40 | 5.1 | 13.0 |
| ASBM610105ETA | 105 | 5 | 110 | 100 | 17 | 60 | 12.8 | 18.2 |
| ASBM610120ETA | 120 | 20 | | | | | | |
| ASBM612125ETA | 125 | 5 | 130 | 120 | 19 | 80 | 16.8 | 31.0 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.
** RNSS Capacity based on: 1 fastener per fixing point, 4 or greater fixing points.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## COUNTERSUNK HEAD



CERAMIC COATED

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating - from Option 1 up to Seismic C2, see Range table for details
- Fire rating to 120 minutes for all anchor sizes

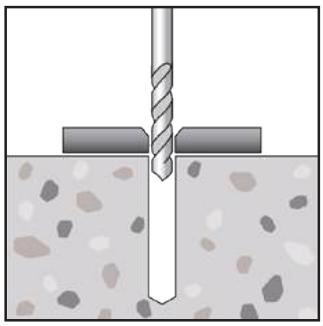
### Application / Trades

- Public space fixings
- Outdoor public seating
- Hand rails
- Steel framing
- Machinery hold down

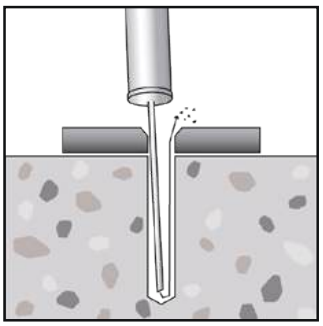
Torx drive for reliable anchor setting

Triple Hi-Lo thread for improved tensile performance

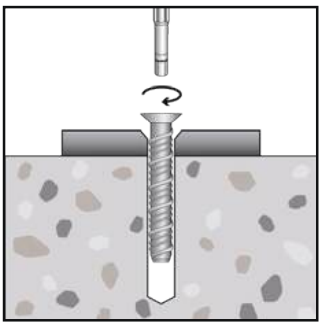
## INSTALLATION



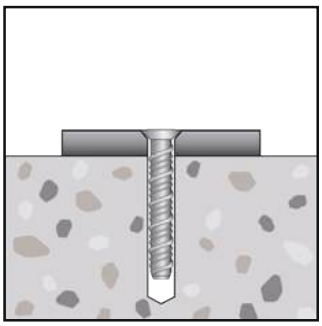
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using hand or power tool to drive Torx driver bit. Apply constant forward pressure when driving and tighten to the specified torque.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# COUNTERSUNK HEAD

CERAMIC COATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth** @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum concrete thickness** (mm) $h_{min}$ | Maximum fixture thickness** (mm) $t_{fix,\,max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ASBKR06052ETA | 100 | Seismic C1 | 52 | 6 | 50 | 100 | 12 | 9 |
| ASBKR06072ETA | | Seismic C1 | 72 | | | | 32 | |
| ASBKR08065ETA | 100 | Option 1* | 65 | 8 | 60 | 100 | 15 | 12 |
| ASBKR08075ETA | | Option 1* | 75 | | 60 | | 25 | |
| ASBKR08090ETA | | Seismic C1 & C2 | 90 | | 70 | | 30 | |
| ASBKR10070ETA | 50 | Option 1 | 70 | 10 | 70 | 100 | 10 | 14 |
| ASBKR10080ETA | | Option 1 | 80 | | 70 | 100 | 20 | |
| ASBKR10100ETA | | Seismic C1 & C2 | 100 | | 100 | 130 | 15 | |

**Note:** * Seismic C1 & C2 ratings available for this anchor with increased embedment depth – contact Bremick for details.

** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness (hmin) by ($t_{fix,max} - t_{fix}$ actual).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\,max}$ | Drill hole depth @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum embedment depth (mm) $h_{nom}$ | Driver bit size H | Installation torque (Nm) $T_{inst}$ | Design Capacities: Uncracked concrete - tension (kN) $N_{Rd,\,ucr}$ | Design Capacities: Uncracked concrete - shear (kN) $V_{Rd,\,ucr}$ |
|---|---|---|---|---|---|---|---|---|
| ASBKR06052ETA | 52 | 12 | 50 | 40 | T30 | 15 | 3.8 | 6.2 |
| ASBKR06072ETA | 72 | 32 | | | | | | |
| ASBKR08065ETA | 65 | 15 | 60 | 50 | T45 | 25 | 7.4 | 10.7 |
| ASBKR08075ETA | 75 | 25 | 60 | 50 | | | 7.4 | 10.7 |
| ASBKR08090ETA | 90 | 30 | 70 | 60 | | | 10.0 | 12.0 |
| ASBKR10070ETA | 70 | 10 | 70 | 60 | T45 | 50 | 9.7 | 11.6 |
| ASBKR10080ETA | 80 | 20 | 70 | 60 | | | 9.7 | 11.6 |
| ASBKR10100ETA | 100 | 15 | 100 | 85 | | | 21.0 | 20.4 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## COUNTERSUNK HEAD


### Features & Benefits

- Ideal for safety critical & fire rated applications
- 6mm size intended for Redundant Non Structural System use
- Intended working life of 50 years
- BiMetal construction combines the concrete thread cutting capability of hardened boron steel with the corrosion resistance of 316 Stainless Steel
- Fire rating to 120 minutes for all sizes

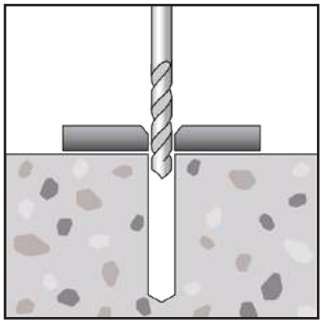
### Application / Trades

- Public space fixings
- Hand rails
- Outdoor balustrading
- Aluminium framing

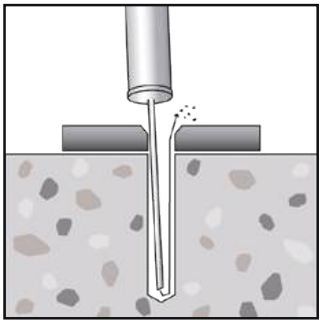
Torx drive for reliable anchor setting

300 series Stainless Steel for ultimate corrosion protection

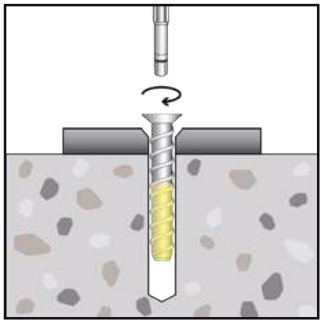
## INSTALLATION



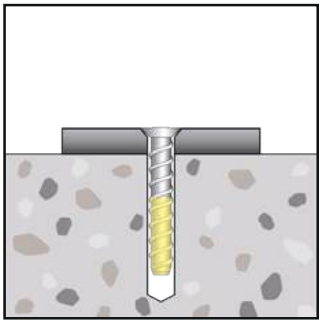
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor through fixture into drilled hole and screw in using power tool and correctly sized Torx drive bit. Apply constant forward pressure when driving and stop once fixture has clamped to substrate. Do Not Overdrive.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# COUNTERSUNK HEAD

STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | ETA Certification level | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth* @ $t_{fix,\,max}$ (mm) | Minimum concrete thickness* (mm) | Maximum fixture thickness* (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\,max}$ | $d_f$ |
| ASBK606080ETA | 50 | RNSS | 80 | 6 | 80 | 110 | 10 | 9 |
| ASBK608095ETA | 50 | Seismic C1 | 95 | 8 | 95 | 125 | 10 | 11 |
| ASBK610110ETA | 20 | Seismic C1 | 110 | 10 | 110 | 140 | 10 | 13 |

**Note:** * For a fixture thickness ( $t_{fix}$ ) that is less than the ( $t_{fix,max}$ ) value tabled above:
– increase both the drill hole depth ( $h_1$ ) & concrete thickness ( $h_{min}$ ) by ( $t_{fix,max} - t_{fix}$ actual ).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | ETA Certification level | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\,max}$ (mm) | Minimum embedment depth (mm) | Driver bit size (mm) | Design capacities: Load in any direction, cracked or uncracked concrete** (kN) |
|---|---|---|---|---|---|---|---|
| | $l_t$ | | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | H | $F_{Rd,\,ucr}$ |
| ASBK606080ETA | 80 | RNSS | 10 | 80 | 70 | T40 | 2.8 |

| Product Code | Anchor length (mm) | ETA Certification level | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\,max}$ (mm) | Minimum embedment depth (mm) | Driver bit size (mm) | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | H | $N_{Rd,\,ucr}$ | $V_{Rd,\,ucr}$ |
| ASBK608095ETA | 95 | Seismic C1 | 10 | 95 | 85 | T45 | 3.1 | 8.8 |
| ASBK610110ETA | 110 | Seismic C1 | 10 | 110 | 100 | T50 | 8.0 | 14.3 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity - no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) - must also comply with ( N* / NRd ) + ( V* / VRd ) ≤ 1.2.
** RNSS capacity based on: 1 fastener per fixing point, 4 or greater fixing points.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## ROD HANGER


### Features & Benefits

- Ideal for light duty safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating – Seismic C1
- Fire rating to 120 minutes

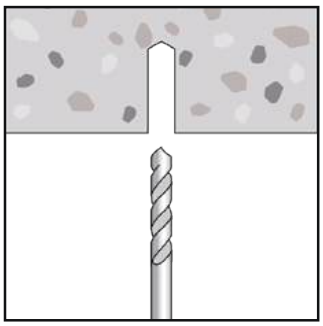
### Application / Trades

- HVAC Duct work
- Fire protection
- Cable tray applications

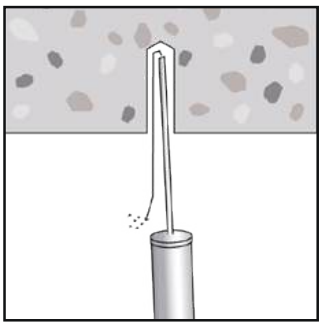
Versatile M8 & M10 Internal Thread

Tapered tip for simpler installation

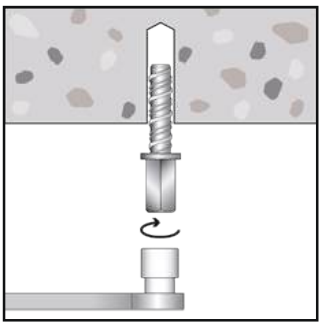
## INSTALLATION



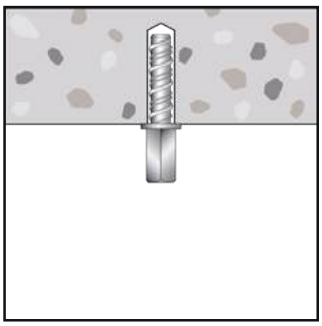
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# ROD HANGER

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | ETA Certification level | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Internal thread size |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | |
| ASIMZ06055ETA | 50 | Seismic C1 | 55 | 6 | 65 | 100 | M8 / M10 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Internal thread size | Drill hole depth (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| ASIMZ06055ETA | 55 | M8 / M10 | 65 | 55 | 13 | 15 | 6.0 | 5.9 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## EXTERNAL THREAD

CERAMIC COATED

### Features & Benefits

- Ideal for light duty safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating – Seismic C1
- Fire rating to 120 minutes

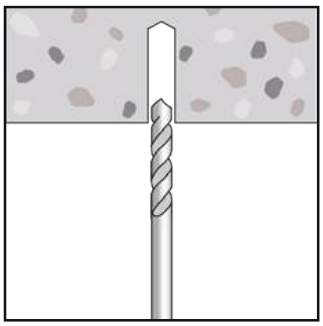
### Application / Trades

- HVAC Duct work
- Fire protection
- Cable tray applications

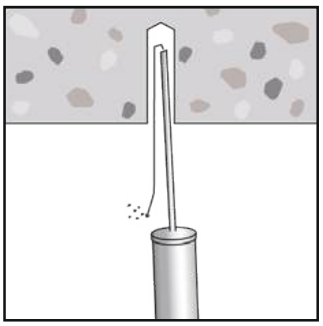
M8 or M10 external thread

Triple Hi-Lo thread for improved tensile performance

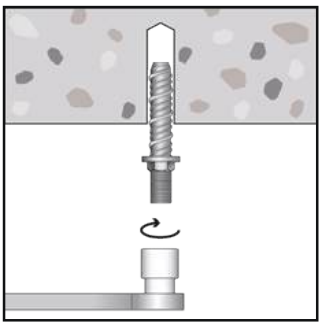
## INSTALLATION



Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.

Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# EXTERNAL THREAD

CERAMIC COATED

## RANGE

| Product Code | Pack Quantity | ETA Certification level | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | External thread size |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | |
| ASE0R06055ETA | 50 | Seismic C1 | 55 | 6 | 65 | 100 | M10 |
| ASE8R06055ETA | | | | | | | M8 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | External thread size | Drill hole depth (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| ASE0R06055ETA | 55 | M10 | 65 | 55 | 13 | 15 | 6 | 5.9 |
| ASE8R06055ETA | | M8 | | | 10 | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SCREW ANCHOR
## PAN HEAD


### Features & Benefits

- Ideal for light duty safety critical & fire rated applications
- Intended working life of 50 years
- High tensile single piece anchor, cuts thread into concrete
- ETA rating – Seismic C1
- Fire rating to 120 minutes

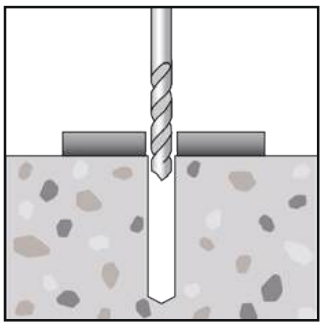
### Application / Trades

- Public space fixings
- Signage fixing
- Brackets

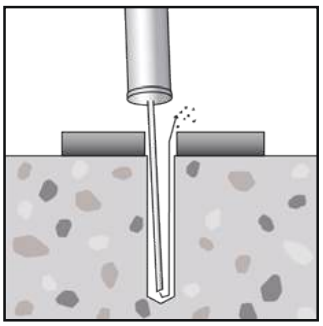
Torx drive for reliable anchor setting

Triple Hi-Lo thread for improved tensile performance

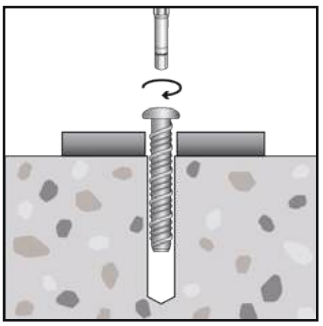
## INSTALLATION



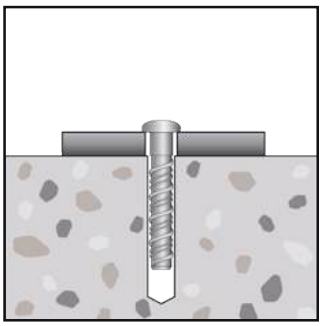
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using hand or power tool to drive Torx driver bit. Apply constant forward pressure when driving and tighten to the specified torque.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# PAN HEAD

CERAMIC COATED

## RANGE

| Product Code | Pack Quantity | ETA Cert level | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth* @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum concrete thickness* (mm) $h_{min}$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ASBPR06050ETA | 100 | Seismic C1 | 50 | 6 | 50 | 100 | 10 | 9 |
| ASBPR06072ETA | | | 72 | | | | 32 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,}$max value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ – $t_{fix}$ actual).

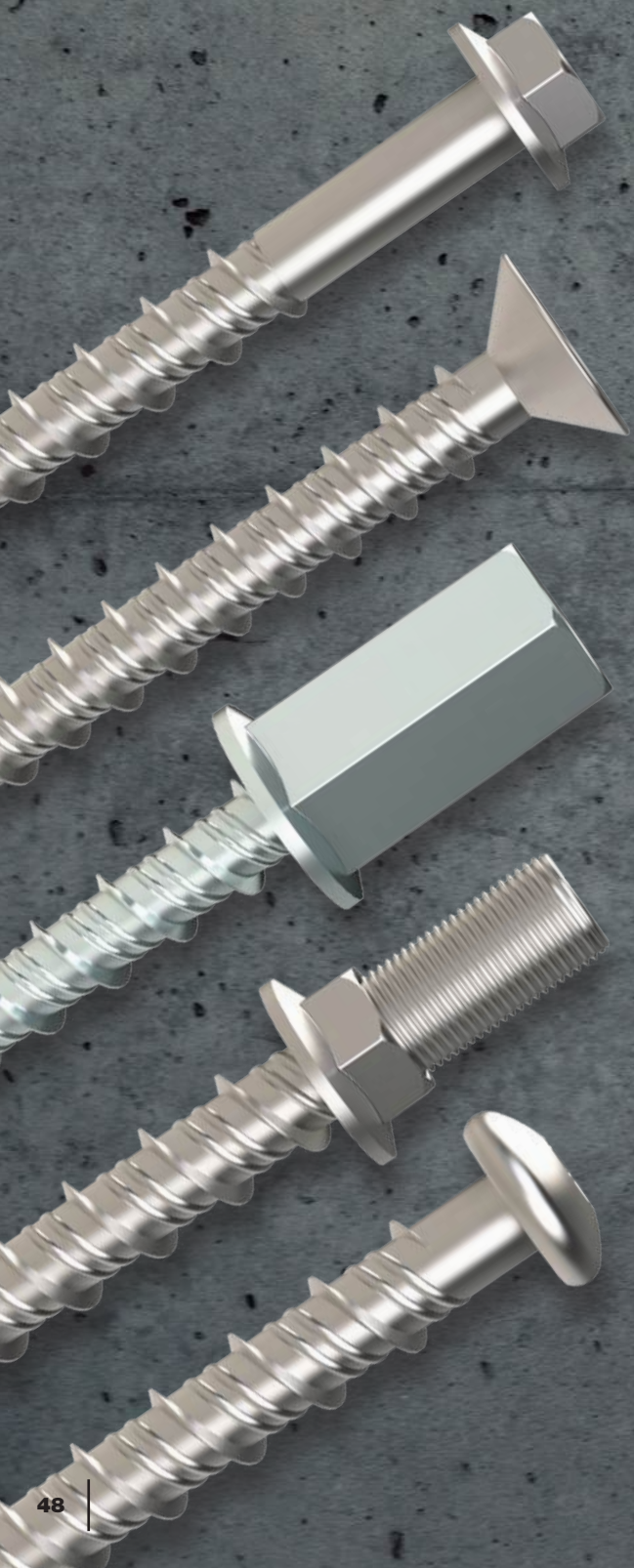
## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Drill hole depth @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum embedment depth (mm) $h_{nom}$ | Driver bit size (mm) H | Installation torque (Nm) $T_{inst}$ | Design Capacities: Uncracked concrete - tension (kN) $N_{Rd,\ ucr}$ | Design Capacities: Uncracked concrete - shear (kN) $V_{Rd,\ ucr}$ |
|---|---|---|---|---|---|---|---|---|
| ASBPR06050ETA | 50 | 10 | 50 | 40 | T30 | 15 | 3.8 | 6.2 |
| ASBPR06072ETA | 72 | 32 | | | | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

# NCC COMPLIANT SCREW ANCHORS



## FLANGE HEX HEAD

Large integrated flange improves fixture clamping, installation is simple with a hex socket or wrench.

## COUNTERSUNK HEAD

The countersunk anchor head works in unison with countersunk fixtures, for a flush anchor finish. Incorporates an internal Torx drive for reliable installation.

## ROD HANGER

Rod Hanger features a dual internal thread for hanging M8 or M10 threaded rod to suspended services and overhead fittings.

## EXTERNAL THREAD

Ideal for attaching couplers to suspend overhead services & utilities.

## PAN HEAD

The pan head is ideal for architectural applications, producing a low profile fastener head. Incorporates an internal Torx drive for reliable installation.


## Triple Hi-Lo patented thread optimises anchor tensile capacity and reliability, making this screw anchor ideal for permanent and temporary applications.

- National Construction Code Compliant
- Conforms to AS 5216:2021
- ETA Certified for cracked and non-cracked concrete
- Seismic C1 & C2 ratings available – check Range tables for line specific rating information
- Near zero expansion force makes the Screw Anchor ideal for close to edge and close anchor spacing applications

NCC COMPLIANT

# THROUGH BOLT
## HEX NUT

ZINC PLATED

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- Comprehensive range from M10 to M20
- ETA Rating – Option 1 for all sizes, with Seismic C1 & C2 available on all lines when the Seismic Protector Sleeve is used
- Fire rating to 120 minutes for all anchor sizes

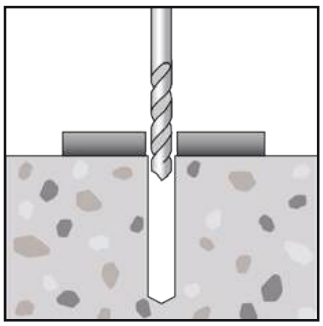
### Application / Trades

- Structural steel connections to concrete
- Safety barriers
- Formwork restraint
- Bottom plate fixing
- Racking

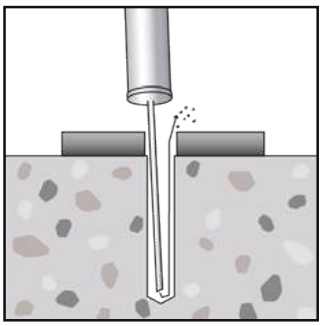
Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

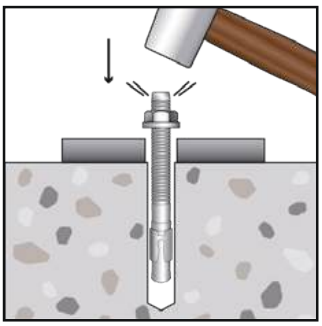
## INSTALLATION



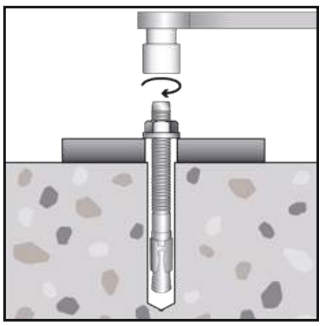
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# THROUGH BOLT
# HEX NUT

ZINC PLATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Thread size x anchor length (mm) | Drill hole Ø (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum concrete thickness* (mm) | Maximum fixture thickness* (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\ max}$ | $d_f$ |
| ATBMZ10095ETA | 25 | Option 1 for all sizes.<br>Seismic C1 & C2 available when the Seismic Protector Sleeve (SPS) is used. | M10 x 95 | 10 | 85 | 110 | 10 | 12 |
| ATBMZ10105ETA | | | M10 x 105 | | | | 20 | |
| ATBMZ10145ETA | | | M10 x 145 | | | | 60 | |
| ATBMZ12115ETA | 25 | | M12 x 115 | 12 | 105 | 140 | 10 | 14 |
| ATBMZ12125ETA | 25 | | M12 x 125 | | | | 20 | |
| ATBMZ12145ETA | 15 | | M12 x 145 | | | | 40 | |
| ATBMZ12165ETA | 15 | | M12 x 165 | | | | 60 | |
| ATBMZ12205ETA | 10 | | M12 x 205 | | | | 100 | |
| ATBMZ16145ETA | 10 | | M16 x 145 | 16 | 120 | 170 | 20 | 18 |
| ATBMZ16165ETA | 5 | | M16 x 165 | | | | 40 | |
| ATBMZ16225ETA | 5 | | M16 x 225 | | | | 100 | |
| ATBMZ20200ETA | 5 | | M20 x 200 | 20 | 135 | 200 | 60 | 22 |

**Note:** * For a fixture thickness ( $t_{fix}$ ) that is less than the ( $t_{fix,max}$ ) value tabled above:
– increase both the drill hole depth ( $h_1$ ) & concrete thickness ( $h_{min}$ ) by ( $t_{fix,max} - t_{fix}$ actual ).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\ max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| ATBMZ10095ETA | 95 | 10 | 85 | 70 | 17 | 45 | 10.8 | 13.0 |
| ATBMZ10105ETA | 105 | 20 | | | | | | |
| ATBMZ10145ETA | 145 | 60 | | | | | | |
| ATBMZ12115ETA | 115 | 10 | 105 | 85 | 19 | 60 | 13.5 | 23.0 |
| ATBMZ12125ETA | 125 | 20 | | | | | | |
| ATBMZ12145ETA | 145 | 40 | | | | | | |
| ATBMZ12165ETA | 165 | 60 | | | | | | |
| ATBMZ12205ETA | 205 | 100 | | | | | | |
| ATBMZ16145ETA | 145 | 20 | 120 | 100 | 24 | 110 | 24.2 | 38.5 |
| ATBMZ16165ETA | 165 | 40 | | | | | | |
| ATBMZ16225ETA | 225 | 100 | | | | | | |
| ATBMZ20200ETA | 200 | 60 | 135 | 115 | 30 | 200 | 32.5 | 61.0 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with ( $N^* / N_{Rd}$ ) + ( $V^* / V_{Rd}$ ) ≤ 1.2.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# THROUGH BOLT
## HEX NUT

CERAMIC COATED

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- Comprehensive range from M8 to M16
- ETA rating - Seismic C1 for all anchor sizes, seismic C2 for M10 to M16
- Fire rating to 120 minutes for all anchor sizes

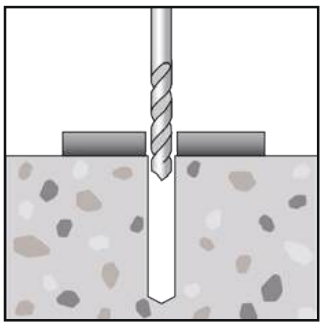
### Application / Trades

- Structural steel connections to concrete
- Safety barriers
- Formwork restraint
- Bottom plate fixing
- Racking

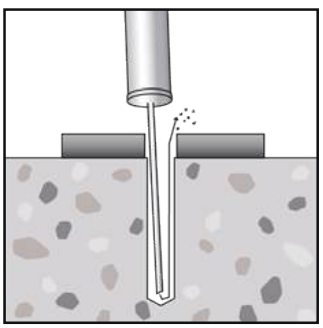
Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

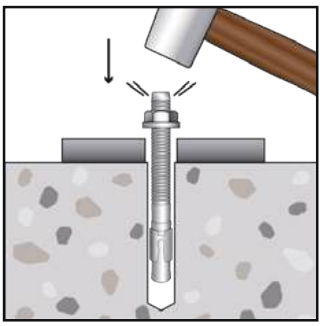
## INSTALLATION



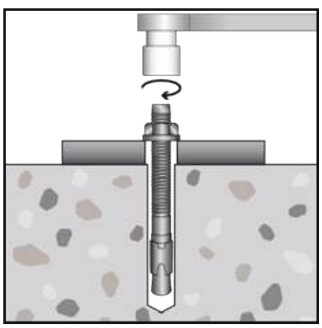
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# THROUGH BOLT
# HEX NUT

CERAMIC COATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Thread size x anchor length (mm) | Drill hole Ø (mm) $d_0$ | Drill hole depth* @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum concrete thickness* (mm) $h_{min}$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ATBMR08070ETA | 100 | Option 1 & Seismic C1 for all lines. | M8 x 70 | 8 | 65 | 110 | 5 | 9 |
| ATBMR08080ETA | 100 | | M8 x 80 | | | | 10 | |
| ATBMR08095ETA | 100 | | M8 x 95 | | | | 25 | |
| ATBMR08115ETA | 100 | | M8 x 115 | | | | 45 | |
| ATBMR08165ETA | 50 | | M8 x 165 | | | | 95 | |
| ATBMR10095ETA | 50 | Option 1 & Seismic C1, C2 for all lines. | M10 x 95 | 10 | 80 | 120 | 15 | 12 |
| ATBMR10110ETA | 50 | | M10 x 110 | | | | 30 | |
| ATBMR10125ETA | 50 | | M10 x 125 | | | | 45 | |
| ATBMR10140ETA | 50 | | M10 x 140 | | | | 60 | |
| ATBMR10160ETA | 50 | | M10 x 160 | | | | 80 | |
| ATBMR10180ETA | 25 | | M10 x 180 | | | | 100 | |
| ATBMR12110ETA | 50 | | M12 x 110 | 12 | 90 | 140 | 15 | 14 |
| ATBMR12125ETA | 50 | | M12 x 125 | | | | 30 | |
| ATBMR12145ETA | 25 | | M12 x 145 | | | | 50 | |
| ATBMR12165ETA | 25 | | M12 x 165 | | | | 70 | |
| ATBMR12185ETA | 25 | | M12 x 185 | | | | 90 | |
| ATBMR16130ETA | 20 | | M16 x 130 | 16 | 110 | 160 | 15 | 18 |
| ATBMR16145ETA | | | M16 x 145 | | | | 30 | |
| ATBMR16180ETA | | | M16 x 180 | | | | 60 | |

**Note:** * For a fixture thickness ( $t_{fix}$ ) that is less than the ( $t_{fix,max}$ ) value tabled above:
– increase both the drill hole depth ( $h_1$ ) & concrete thickness ( $h_{min}$ ) by ( $t_{fix,max} - t_{fix}$ actual).

# THROUGH BOLT
## HEX NUT

CERAMIC COATED

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix, max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix, max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| ATBMR08070ETA | 70 | 5 | 65 | 55 | 13 | 20 | 6.5 | 8.5 |
| ATBMR08080ETA | 80 | 10 | | | | | | |
| ATBMR08095ETA | 95 | 25 | | | | | | |
| ATBMR08115ETA | 115 | 45 | | | | | | |
| ATBMR08165ETA | 165 | 95 | | | | | | |
| ATBMR10095ETA | 95 | 15 | 80 | 70 | 17 | 45 | 11.8 | 13.9 |
| ATBMR10110ETA | 110 | 30 | | | | | | |
| ATBMR10125ETA | 125 | 45 | | | | | | |
| ATBMR10140ETA | 140 | 60 | | | | | | |
| ATBMR10160ETA | 160 | 80 | | | | | | |
| ATBMR10180ETA | 180 | 100 | | | | | | |
| ATBMR12110ETA | 110 | 15 | 90 | 81 | 19 | 60 | 14.1 | 21.5 |
| ATBMR12125ETA | 125 | 30 | | | | | | |
| ATBMR12145ETA | 145 | 50 | | | | | | |
| ATBMR12165ETA | 165 | 70 | | | | | | |
| ATBMR12185ETA | 185 | 90 | | | | | | |
| ATBMR16130ETA | 130 | 15 | 110 | 98 | 24 | 80 | 20.0 | 31.0 |
| ATBMR16145ETA | 145 | 30 | | | | | | |
| ATBMR16180ETA | 180 | 60 | | | | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# THROUGH BOLT
## HEX NUT

STAINLESS STEEL 316

### Features & Benefits

- Ideal for safety critical & fire rated applications
- Intended working life of 50 years
- Comprehensive range from M8 to M16
- ETA rating - Seismic C1 for all anchor sizes, seismic C2 for M10 to M16
- Fire rating to 120 minutes for all anchor sizes

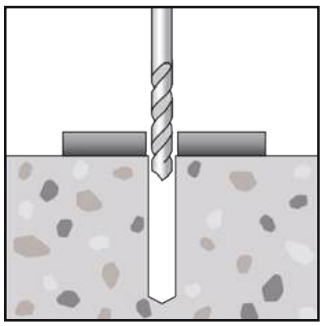
### Application / Trades

- Structural steel connections to concrete
- Safety barriers
- Formwork restraint
- Bottom plate fixing
- Racking

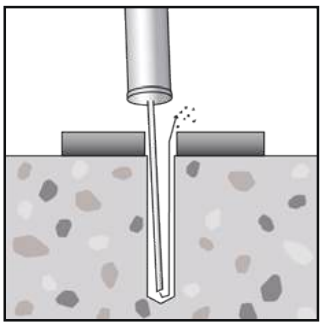
Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

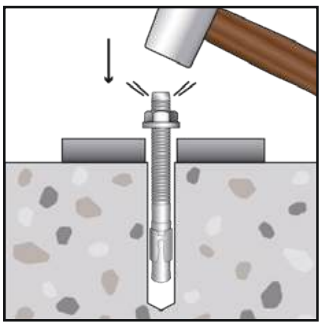
## INSTALLATION



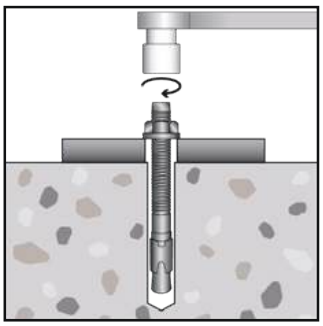
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# THROUGH BOLT
# HEX NUT

STAINLESS STEEL 316

## RANGE

| Product Code | Pack Qty | ETA certification level | Thread size x anchor length (mm) | Drill hole Ø (mm) $d_0$ | Drill hole depth* @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum concrete thickness* (mm) $h_{min}$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| ATBM608070ETA | 100 | Option 1 & Seismic C1 for all lines. | M8 x 70 | 8 | 65 | 110 | 5 | 9 |
| ATBM608080ETA | 100 | | M8 x 80 | | | | 10 | |
| ATBM608095ETA | 100 | | M8 x 95 | | | | 25 | |
| ATBM608115ETA | 100 | | M8 x 115 | | | | 45 | |
| ATBM608165ETA | 50 | | M8 x 165 | | | | 95 | |
| ATBM610095ETA | 50 | Option 1 & Seismic C1, C2 for all lines. | M10 x 95 | 10 | 80 | 120 | 15 | 12 |
| ATBM610110ETA | 50 | | M10 x 110 | | | | 30 | |
| ATBM610125ETA | 50 | | M10 x 125 | | | | 45 | |
| ATBM610140ETA | 50 | | M10 x 140 | | | | 60 | |
| ATBM610160ETA | 50 | | M10 x 160 | | | | 80 | |
| ATBM610180ETA | 25 | | M10 x 180 | | | | 100 | |
| ATBM612110ETA | 50 | | M12 x 110 | 12 | 90 | 140 | 15 | 14 |
| ATBM612125ETA | 50 | | M12 x 125 | | | | 30 | |
| ATBM612145ETA | 25 | | M12 x 145 | | | | 50 | |
| ATBM612165ETA | 25 | | M12 x 165 | | | | 70 | |
| ATBM612185ETA | 25 | | M12 x 185 | | | | 90 | |
| ATBM616130ETA | 20 | | M16 x 130 | 16 | 110 | 160 | 15 | 18 |
| ATBM616145ETA | | | M16 x 145 | | | | 30 | |
| ATBM616180ETA | | | M16 x 180 | | | | 60 | |

**Note:** * For a fixture thickness ( $t_{fix}$ ) that is less than the ( $t_{fix,max}$ ) value tabled above:
– increase both the drill hole depth ( $h_1$ ) & concrete thickness ( $h_{min}$ ) by ( $t_{fix,max} - t_{fix}$ actual).

# THROUGH BOLT
# HEX NUT

STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\ max}$ (mm) | Minimum embedment depth (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| ATBM608070ETA | 70 | 5 | 65 | 55 | 13 | 20 | 8.8 | 10.9 |
| ATBM608080ETA | 80 | 10 | | | | | | |
| ATBM608095ETA | 95 | 25 | | | | | | |
| ATBM608115ETA | 115 | 45 | | | | | | |
| ATBM608165ETA | 165 | 95 | | | | | | |
| ATBM610095ETA | 95 | 15 | 80 | 70 | 17 | 45 | 15.1 | 17.0 |
| ATBM610110ETA | 110 | 30 | | | | | | |
| ATBM610125ETA | 125 | 45 | | | | | | |
| ATBM610140ETA | 140 | 60 | | | | | | |
| ATBM610160ETA | 160 | 80 | | | | | | |
| ATBM610180ETA | 180 | 100 | | | | | | |
| ATBM612110ETA | 110 | 15 | 90 | 81 | 19 | 60 | 18.5 | 25.2 |
| ATBM612125ETA | 125 | 30 | | | | | | |
| ATBM612145ETA | 145 | 50 | | | | | | |
| ATBM612165ETA | 165 | 70 | | | | | | |
| ATBM612185ETA | 185 | 90 | | | | | | |
| ATBM616130ETA | 130 | 15 | 110 | 98 | 24 | 80 | 21.0 | 47.0 |
| ATBM616145ETA | 145 | 30 | | | | | | |
| ATBM616180ETA | 180 | 60 | | | | | | |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# DROP IN ANCHOR
## INTERNAL THREAD

ZINC PLATED

### Features & Benefits

- Ideal for safety critical load case applications
- Intended working life of 50 years
- Concise range from M6 to M16
- ETA rating – Option 7, Uncracked Concrete
- Fire rating to 120 minutes for all anchor sizes

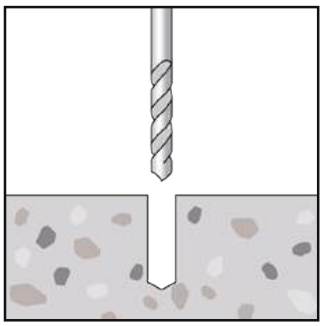
### Application / Trades

- Suspended services to concrete slab soffit
- The internal ISO metric coarse thread accepts a wide range of bolts and threaded rod
- Leaves no protrusion once fixture removed - ideal for make good in leased space environments
- Balustrade and hand rail base plates

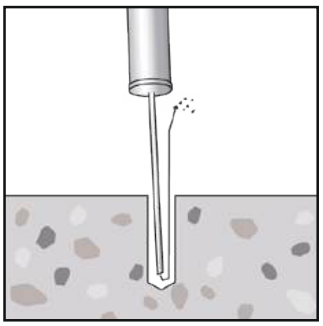
Internal thread accepts a wide range of bolts & threaded rod

Set the internal anchor plug using the correct setting tool

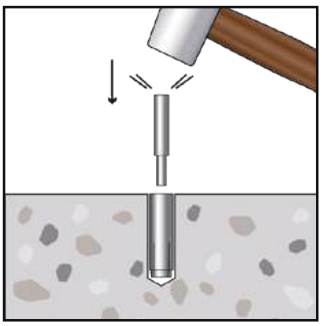
## INSTALLATION



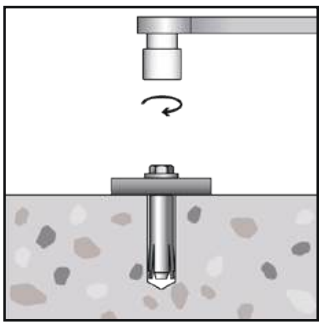
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.



Tap anchor into the drilled hole using a hammer until flush with substrate surface. Impact the setting tool with a hammer until the setting tool contacts the top of the anchor body.



Place fixture, install bolt / threaded rod and apply specified installation torque.

# DROP IN ANCHOR
# INTERNAL THREAD

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|
| ADIMZ06025ETA | 100 | M6 | 25 | 8 | 25 | 100 | 7 |
| ADIMZ08030ETA | 50 | M8 | 30 | 10 | 30 | 100 | 9 |
| ADIMZ10040ETA | 50 | M10 | 40 | 12 | 40 | 120 | 12 |
| ADIMZ12050ETA | 25 | M12 | 50 | 15 | 50 | 140 | 14 |
| ADIMZ16065ETA | 20 | M16 | 65 | 20 | 65 | 160 | 18 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) $l_t$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Installation torque - maximum (Nm) $T_{inst}$ | Design Capacities: Uncracked concrete - tension (kN) $N_{Rd}$ | Design Capacities: Uncracked concrete - shear (kN) $V_{Rd}$ |
|---|---|---|---|---|---|---|
| ADIMZ06025ETA | 25 | 25 | 100 | 4 | 3.4 | 1.7 |
| ADIMZ08030ETA | 30 | 30 | 100 | 8 | 2.8 | 3.7 |
| ADIMZ10040ETA | 40 | 40 | 120 | 15 | 4.7 | 4.7 |
| ADIMZ12050ETA | 50 | 50 | 140 | 35 | 6.8 | 5.0 |
| ADIMZ16065ETA | 65 | 65 | 160 | 60 | 9.8 | 12.0 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor - no nearby edge, minimum recommended concrete thickness.
For combined load cases – must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.

Important Disclaimer: Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# SPLICE ANCHOR
## ROUND HEAD

ZINC PLATED

### Features & Benefits

- Multiple fixings in non structural applications
- Tamper resistant once set
- Low profile head
- ETA rating – ETAG001, Part 6
- Fire rating to 120 minutes

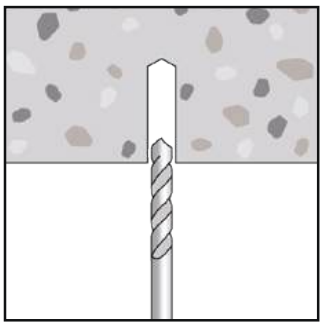
### Application / Trades

- Hanger systems
- Suspended services – pipes, tracks
- Cable tray
- Battens

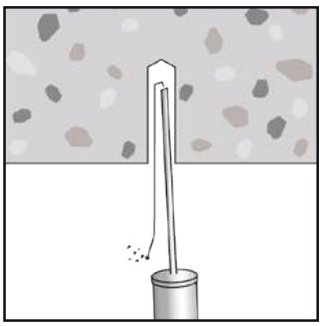
Tamper resistant, large round head firmly secures the fixture

Wedge mechanism expands when hammered

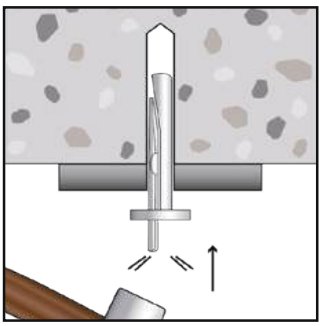
### INSTALLATION



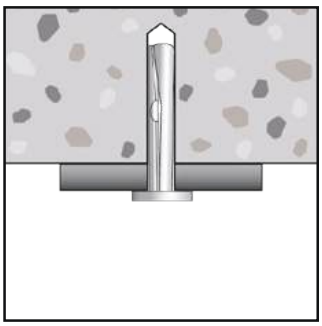
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor through fixture into hole – drive the anchor until it is in firm contact with the fixture.



Drive the anchor pin home until it is flush with the large round head of the anchor.

# SPLICE ANCHOR
# ROUND HEAD

ZINC PLATED

## RANGE

| Product Code | Pack Qty | ETA Certification level | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum concrete thickness* (mm) | Maximum fixture thickness* (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\ max}$ | $d_f$ |
| ASPMZ060352 | 100 | ETAG001, Part 6 | 35 | 6 | 40 | 80 | 5 | 7 |
| ASPMZ060652 | | ETAG001, Part 6 | 65 | | | | 35 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ – $t_{fix}$ actual).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\ max}$ (mm) | Minimum concrete thickness (mm) | Design Capacity, (load in any direction) - Cracked or Uncracked concrete (kN) |
|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | $F_{Rd}$ |
| ASPMZ060352 | 35 | 5 | 40 | 80 | 3.3 |
| ASPMZ060652 | 65 | 35 | | | |

**Note:** Concrete cylinder compressive strength≥ 20MPa.
Single anchor - no nearby edge, minimum recommended concrete thickness.

Important Disclaimer: Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# UNIVERSAL FRAME ANCHOR
## HEX HEAD

### Features & Benefits

- Multiple fixings in non structural applications
- Intended working life of 50 years
- ETA rating – ETAG 020, Multiple fixings in non structural applications
- Available in Zinc Plated & Stainless Steel 316

### Application / Trades

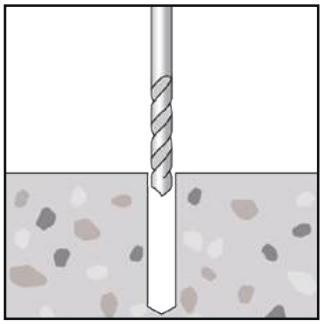
- Fixing to concrete, solid & hollow masonry units
- Timber Framing
- Gates, metal brackets
- Door frames, windows, battens


KEW®

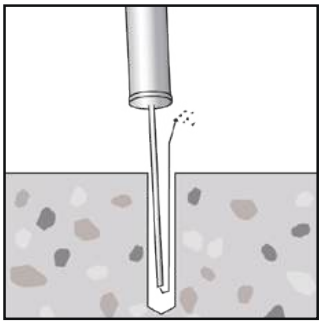
Available in Hex head and countersunk head options

Nylon sleeve provides insulation between fixing screw and substrate

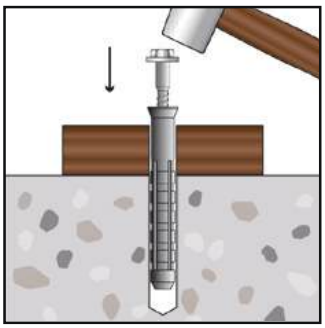
## INSTALLATION



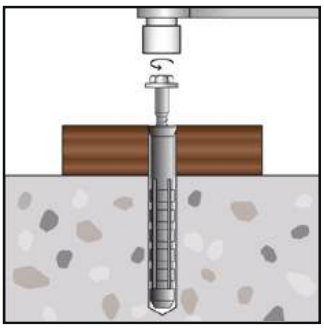
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact.



Using a 13mm AF spanner / socket, drive the screw into the anchor body until the fixture is firmly clamped.

# UNIVERSAL FRAME ANCHOR
## HEX HEAD

ZINC PLATED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) $l_t$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Drill hole dimensions* @ $t_{fix,\ max}$ (mm) $d_0$ x $h_1$ | Socket size AF (mm) SW |
|---|---|---|---|---|---|
| RDDSZ100802 | 50 | 80 | 10 | Ø10 x 90 | 13 |
| RDDSZ101002 | | 100 | 20 | | |
| RDDSZ101202 | | 120 | 40 | | |
| RDDSZ101402 | | 140 | 60 | | |
| RDDSZ101602 | | 160 | 80 | | |
| RDDS6100802 | 50 | 80 | 10 | Ø10 x 90 | 13 |
| RDDS6101002 | | 100 | 20 | | |
| RDDS6101202 | | 120 | 40 | | |
| RDDS6101402 | | 140 | 60 | | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

# UNIVERSAL FRAME ANCHOR
## HEX HEAD

ZINC PLATED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION – CONCRETE

| Product Code | Drill hole dimensions @ $t_{fix, max}$ (mm) | Anchor embedment depth (mm) | Minimum concrete thickness (mm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|
| | $d_0$ x $h_1$ | $h_{nom}$ | $h_{min}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 110 | 2.6 | 3.8 |

**Note:** Concrete cylinder compressive strength ≥ 20MPa.
Valid for temperature range 50 °C / 80 °C (maximum air temperature / maximum short-term temperature).
For combined load cases – must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.
Single anchor - no nearby edge, minimum recommended concrete thickness.
Refer to ETA document for details.

## PRODUCT INSTALL & PERFORMANCE INFORMATION – MASONRY UNITS

| Product Code | Drill hole dimensions @ $t_{fix, max}$ (mm) | Anchor embedment depth (mm) | Design Capacities: Load in any direction (kN): Solid Masonry | Design Capacities: Load in any direction (kN): Hollow Masonry |
|---|---|---|---|---|
| | $d_0$ x $h_1$ | $h_{nom}$ | $F_{Rd}$ | $F_{Rd}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 2.6 | 0.6 |

**Note:** Masonry unit compressive strength: ≥ 20MPa for solid units, ≥12MPa for hollow units.
Valid for temperature range 50 °C / 80 °C (maximum air temperature / maximum short-term temperature). Single anchor - no nearby edge, minimum recommended concrete thickness. Refer to ETA document for details of the relevant masonry units.
Please note that NCC Compliance relates strictly to installations into Concrete, hence this Masonry Units information is provided for information only.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# UNIVERSAL FRAME ANCHOR
## COUNTERSUNK HEAD

### Features & Benefits

- Multiple fixings in non structural applications
- Intended working life of 50 years
- ETA rating – ETAG 020, Multiple fixings in non structural applications
- Available in Zinc Plated & Stainless Steel 316

### Application / Trades

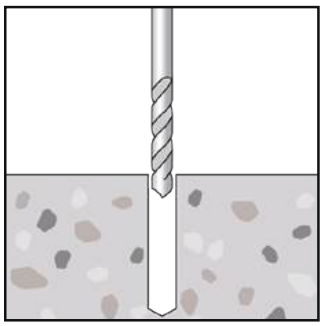
- Fixing to concrete, solid & hollow masonry units
- Timber Framing
- Gates, metal brackets
- Door frames, windows, battens

Available in Hex head and Countersunk head options

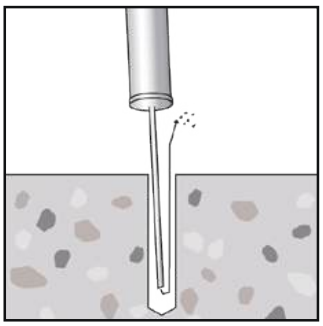


Nylon sleeve provides insulation between fixing screw and substrate

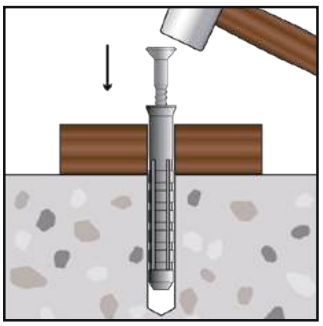
## INSTALLATION



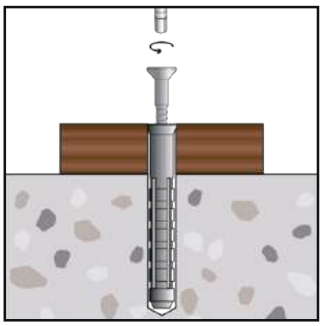
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact.



Drive the screw until it is flush with the anchor head using an electric screwdriver to set the anchor.

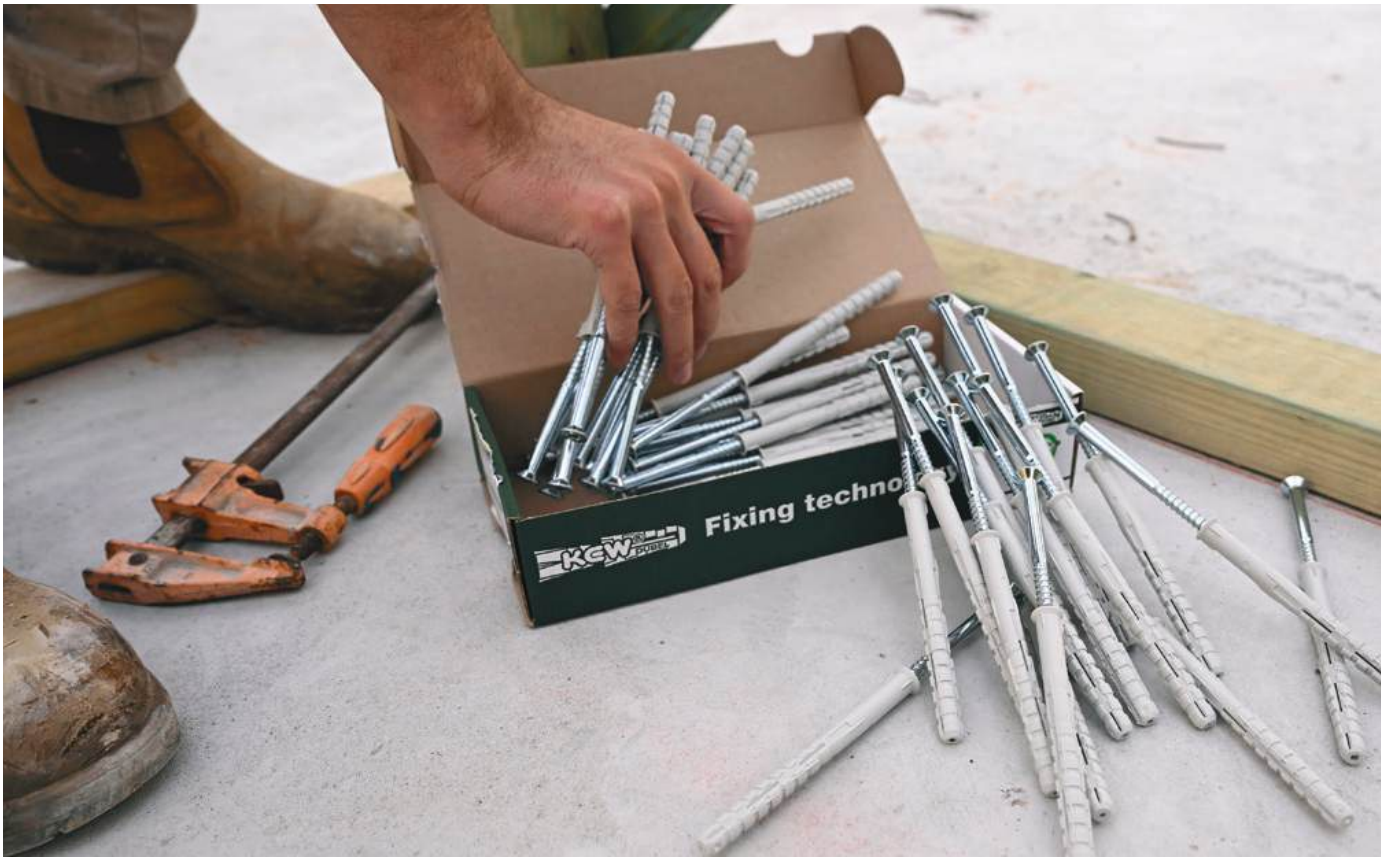
# UNIVERSAL FRAME ANCHOR
## COUNTERSUNK HEAD

ZINC PLATED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) $l_t$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Drill hole dimensions* @ $t_{fix,\ max}$ (mm) $d_0 \times h_1$ | Torx Drive Bit |
|---|---|---|---|---|---|
| RDDTZ100802 | 50 | 80 | 10 | Ø10 x 90 | T40 |
| RDDTZ101002 | | 100 | 20 | | |
| RDDTZ101202 | | 120 | 40 | | |
| RDDTZ101402 | | 140 | 60 | | |
| RDDTZ101602 | | 160 | 80 | | |
| RDDTZ102002 | | 200 | 120 | | |
| RDDT6100802 | 50 | 80 | 10 | Ø10 x 90 | T40 |
| RDDT6101002 | | 100 | 20 | | |
| RDDT6101202 | | 120 | 40 | | |
| RDDT6101402 | | 140 | 60 | | |
| RDDT6101602 | | 160 | 80 | | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).



# UNIVERSAL FRAME ANCHOR
# COUNTERSUNK HEAD

ZINC PLATED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION – CONCRETE

| Product Code | Drill hole dimensions @ $t_{fix, max}$ (mm) | Anchor embedment depth (mm) | Minimum concrete thickness (mm) | Design Capacities | |
|---|---|---|---|---|---|
| | | | | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
| | $d_0$ x $h_1$ | $h_{nom}$ | $h_{min}$ | $N_{Rd, ucr}$ | $V_{Rd, ucr}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 110 | 2.6 | 3.8 |

**Note:** Concrete cylinder compressive strength ≥ 20MPa.
Valid for temperature range 50 °C / 80 °C (maximum air temperature / maximum short-term temperature).
For combined load cases – must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.
Single anchor - no nearby edge, minimum recommended concrete thickness.
Refer to ETA document for details.

## PRODUCT INSTALL & PERFORMANCE INFORMATION – MASONRY UNITS

| Product Code | Drill hole dimensions @ $t_{fix, max}$ (mm) | Anchor embedment depth (mm) | Design Capacities Load in any direction (kN) | |
|---|---|---|---|---|
| | | | Solid Masonry | Hollow Masonry |
| | $d_0$ x $h_1$ | $h_{nom}$ | $F_{Rd}$ | $F_{Rd}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 2.6 | 0.6 |

**Note:** Masonry unit compressive strength: ≥ 20MPa for solid units, ≥12MPa for hollow units.
Valid for temperature range 50 °C / 80 °C (maximum air temperature / maximum short-term temperature).
Single anchor - no nearby edge.
Refer to ETA document for details of the relevant masonry units.
Please note that NCC Compliance relates strictly to installations into Concrete, hence this Masonry Units information is provided for information only.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NCC COMPLIANT

# CHEMICAL INJECTION
## PURE EPOXY


### Features & Benefits

- Ideal for safety critical applications
- Intended working life of 100 years
- ETA rating - Up to Seismic C2: refer to Range tables
- VOC A+ rating
- WRAS Approved for potable drinking water
- LEED Compliance
- Suitable for wet & flooded holes
- Hammer drilled or diamond cored holes
- Long working time

### Application / Trades

- Structural steel connections to concrete
- Road, tunnel & bridge heavy construction
- Seismic / cracked concrete applications
- Critical Infrastructure structural connections

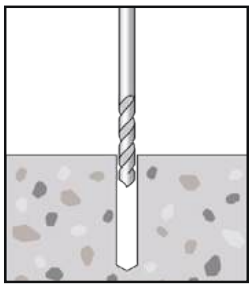
| | |
|---|---|
| Strength | Extreme |
| Versatility | 9 Stars |
| Chemical Resistance | 9 Stars |
| Intended Service Life | 100 years |
| Drilled Hole Can Be | Dry / Wet / Flooded |
| Carbide Drilled | ✓ |
| Diamond Cored | ✓ |
| Dustless Drilled | ✓ |
| Shelf Life | 24 Months |
| Install Temperature | +5°C to +40°C |

National Construction Code AS5216 ETA C1 C2 SEISMIC FIXING

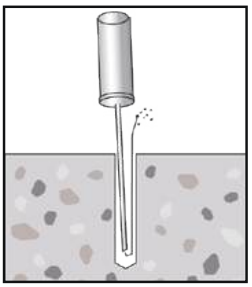
100 YEARS SERVICE LIFE FLOODED HOLE APPROVED FIRE RATED

# CHEMICAL INJECTION
# PURE EPOXY

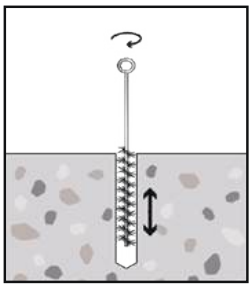

## INSTALLATION



Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



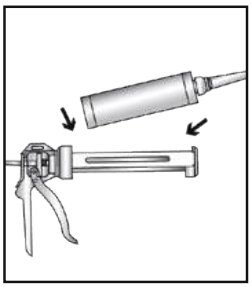
Blow out from the base of the drill hole at least 2 times until removed air is free of noticeable debris. For drill holes up to 18mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



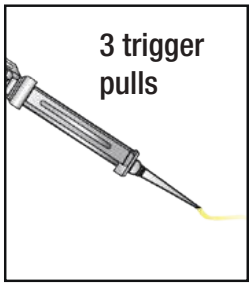
Brush 2 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.

Blow, brush, blow, brush, blow.

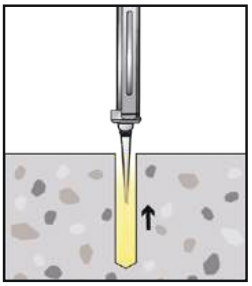
Repeat prior 2 steps for a total of: blow, brush, blow, brush, blow. Protect the hole from contamination until ready to complete the installation. For full details & alternative hole drilling/cleaning methods – please refer to the product ETA document.



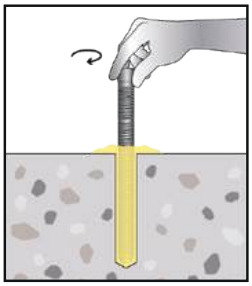
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



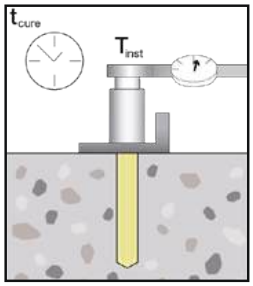

Prior to dispensing into the anchor hole, squeeze out 3 trigger pulls of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



With the cartridge nozzle tip at the base of the cleaned drill hole, inject adhesive until the hole is approximately 2/3 full. Slowly withdraw the nozzle from the hole whilst injecting, keeping the nozzle tip immersed in the adhesive. This will avoid creating air pockets within the adhesive.



Ensure the anchor stud is clean and free of contaminants, grease etc. Push the anchor stud into the adhesive - slowly rotating the stud until it is seated against the base of the hole. An excess of adhesive around the top of the hole indicates sufficient material was injected into the hole, otherwise remove the anchor stud and renew the hole with adhesive.




All steps prior must be completed within the working time of the adhesive. Protect the anchor from disturbance until the full curing time has been reached. Once full cure is achieved, carefully place the fixture and apply the specified installation torque.

# CHEMICAL INJECTION
# PURE EPOXY


ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code & description | Anchor thread size | ETA Certification level | # Fixings per cartridge (per below Range tables) |
|---|---|---|---|
| ACIPCSE5852 Pure Epoxy 600, Seismic C2 Chemical Injection - 585ml cartridge – Use dispensing tool TMACISE5852 | M8 (10 x 80mm hole) | Seismic C1 | 145 |
| | M10 (12 x 90mm hole) | Seismic C1 | 95 |
| | M12 (14 x 110mm hole) | Seismic C2 | 60 |
| | M16 (18 x 125mm hole) | Seismic C2 | 40 |
| | M20 (22 x 170mm hole) | Seismic C2 | 20 |
| | M24 (28 x 210mm hole) | Seismic C2 | 9 |
| | M30 (35 x 280mm hole) | Seismic C1 | 4 |

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMZ101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMZ161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSMZ202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSMZ243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| ACSMG081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSMG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSMG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| **Flat Cut Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| SFCMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SFCMZ161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SFCMZ202602 | 5 | M20 | 260 | 22 | 170 | 220 | 50 | 22 |
| SFCMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| SFCMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SFCMG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SFCMG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| SFCMG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| **Flat Cut Chemical Anchor Studs (Property Class 8.8)** | | | | | | | | |
| SF8MG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SF8MG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SF8MG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| SF8MG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| SF8MG303802 | 2 | M30 | 380 | 35 | 280 | 350 | 65 | 33 |

# CHEMICAL INJECTION
## PURE EPOXY


ZINC YELLOW | HOT DIPPED GALVANISED | STAINLESS STEEL 316

| Product Code | Pack Quantity | Thread size | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Maximum fixture thickness (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $d_0$ | $h_1$ | $h_{min}$ | $t_{fix,\ max}$ | $d_f$ |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSM6101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSM6121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSM6161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSM6202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSM6243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 110 | 15 | 80 | 110 | 13 | 10 | 12.0 | 7.2 |
| ACSMZ101302 | 130 | 20 | 90 | 120 | 17 | 20 | 19.3 | 11.8 |
| ACSMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 28.0 | 16.8 |
| ACSMZ161902 | 190 | 35 | 125 | 165 | 24 | 60 | 52.0 | 31.2 |
| ACSMZ202602 | 260 | 50 | 170 | 220 | 30 | 120 | 81.3 | 48.8 |
| ACSMZ243002 | 300 | 55 | 210 | 270 | 36 | 160 | 117.3 | 70.4 |
| ACSMG081102 | 110 | 15 | 80 | 110 | 13 | 10 | 12.0 | 7.2 |
| ACSMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 19.3 | 11.8 |
| ACSMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 28.0 | 16.8 |
| ACSMG161902 | 190 | 35 | 125 | 165 | 24 | 60 | 52.0 | 31.2 |
| ACSMG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 81.3 | 48.8 |
| ACSMG243002 | 300 | 55 | 210 | 270 | 36 | 160 | 117.3 | 70.4 |
| **Flat Cut Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| SFCMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 28.0 | 16.8 |
| SFCMZ161902 | 190 | 35 | 125 | 165 | 24 | 60 | 52.0 | 31.2 |
| SFCMZ202602 | 260 | 50 | 170 | 220 | 30 | 120 | 81.3 | 48.8 |
| SFCMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 19.3 | 11.8 |
| SFCMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 28.0 | 16.8 |
| SFCMG161902 | 190 | 35 | 125 | 165 | 24 | 60 | 52.0 | 31.2 |
| SFCMG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 81.3 | 48.8 |
| SFCMG243002 | 300 | 55 | 210 | 270 | 36 | 160 | 117.3 | 70.4 |

# CHEMICAL INJECTION
# PURE EPOXY


ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| **Flat Cut Chemical Anchor Studs (Property Class 8.8)** | | | | | | | | |
| SF8MG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 43.6 | 27.0 |
| SF8MG161902 | 190 | 35 | 125 | 165 | 24 | 60 | 56.1 | 50.0 |
| SF8MG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 89.0 | 77.0 |
| SF8MG243002 | 300 | 55 | 210 | 270 | 36 | 160 | 122.2 | 112.0 |
| SF8MG303802 | 380 | 65 | 280 | 350 | 46 | 300 | 188.8 | 175.0 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 110 | 15 | 80 | 110 | 13 | 10 | 13.9 | 8.3 |
| ACSM6101302 | 130 | 20 | 90 | 120 | 17 | 20 | 21.9 | 12.8 |
| ACSM6121602 | 160 | 25 | 110 | 140 | 19 | 40 | 31.6 | 19.2 |
| ACSM6161902 | 190 | 35 | 125 | 165 | 24 | 60 | 56.1 | 35.3 |
| ACSM6202602 | 260 | 50 | 170 | 220 | 30 | 120 | 89.0 | 55.1 |
| ACSM6243002 | 300 | 55 | 210 | 270 | 36 | 160 | 122.2 | 79.5 |

**Note:** Installation in accordance with this information.
Concrete cylinder compressive strength of 32MPa.
Single anchor capacity – no nearby concrete edge with minimum recommended concrete thickness.
In service temperature range I considered, hammer drilled holes.
$\psi_{sus}$ = 1, refer to AS 5216:2021 clause 6.2.5.2 for details.
To address specific design cases, please refer to the product ETA document and contact Bremick for details.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

## MINIMUM CURING TIMES

| Temperature in the concrete substrate | Gel / working time | Minimum curing time - dry concrete hole | Minimum curing time - wet concrete hole |
|---|---|---|---|
| +5°C | 70 minutes | 60 hours | 120 hours |
| +10°C | 32 minutes | 40 hours | 80 hours |
| +15°C | 28 minutes | 30 hours | 60 hours |
| +20°C | 25 minutes | 18 hours | 36 hours |
| +25°C | 22 minutes | 17 hours | 34 hours |
| +30°C | 20 minutes | 16 hours | 32 hours |
| +40°C | 18 minutes | 12 hours | 24 hours |
| Cartridge temperature: +15°C to +35°C | | | |

NCC COMPLIANT

# CHEMICAL INJECTION
## VINYLESTER


### Features & Benefits

- Ideal for safety critical applications
- Intended working life of 50 years
- ETA rating - Option 1 for cracked concrete
- VOC A+ rating
- WRAS Approved for potable drinking water
- LEED Compliance
- Suitable for dry, wet & flooded holes
- Fast cure time

### Application / Trades

- Structural steel connections to concrete
- Road, tunnel & bridge heavy construction
- Cracked concrete applications
- Fast turnaround time structural connections

| | |
|---|---|
| Strength | Very High |
| Versatility | 9 Stars |
| Chemical Resistance | 8 Stars |
| Intended Service Life | 50 years |
| Drilled Hole Can Be | Dry / Wet / Flooded |
| Carbide Drilled | ✓ |
| Diamond Cored | ✗ |
| Dustless Drilled | ✓ |
| Shelf Life | 18 Months |
| Install Temperature | -10°C to +35°C |

National Construction Code AS5216

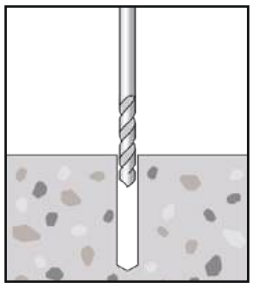
ETA OPTION 1 Cracked Concrete

50 YEARS SERVICE LIFE

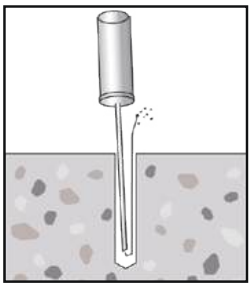
FLOODED HOLE APPROVED

# CHEMICAL INJECTION
# VINYLESTER

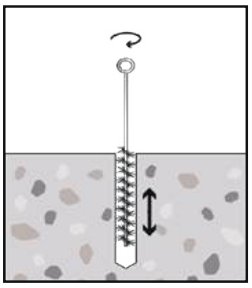

## INSTALLATION



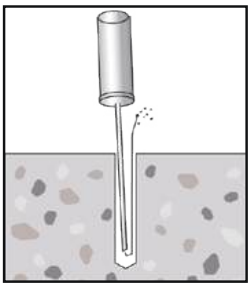
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



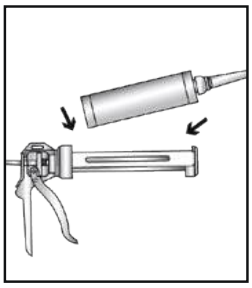
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



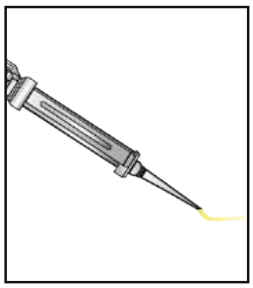
Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.



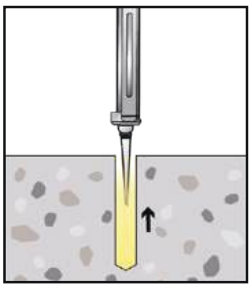
Blow out again at least 4 times.



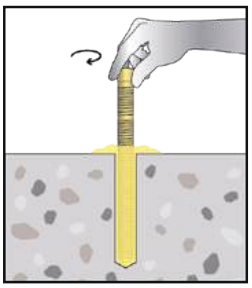
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



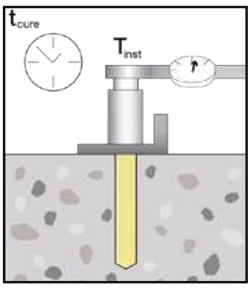
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



With the cartridge nozzle tip at the base of the cleaned drill hole, inject adhesive until the hole is approximately 2/3 full. Slowly withdraw the nozzle from the hole whilst injecting, keeping the nozzle tip immersed in the adhesive. This will avoid creating air pockets within the adhesive.



Ensure the anchor stud is clean and free of contaminants, grease etc. Push the anchor stud into the adhesive – slowly rotating the stud until it is seated against the base of the hole. An excess of adhesive around the top of the hole indicates sufficient material was injected into the hole, otherwise remove the anchor stud and renew the hole with adhesive.




All steps prior must be completed within the working time of the adhesive. Protect the anchor from disturbance until the full curing time has been reached. Once full cure is achieved, carefully place the fixture and apply the specified installation torque.

# CHEMICAL INJECTION
## VINYLESTER

ZINC YELLOW | HOT DIPPED GALVANISED | STAINLESS STEEL 316


## RANGE

| Product Code & description | Anchor thread size & drill hole dimensions | ETA Certification level | # Fixings per cartridge (per below Range tables) | |
|---|---|---|---|---|
| | | | 300ml | 410ml |
| **ACIPCVR3002** BremFix Vinylester Chemical Injection - 300ml cartridge – Use dispensing tool TMACISF4002 **ACIPCVR4102** BremFix Vinylester Chemical Injection - 410ml cartridge – Use dispensing tool TMACICG3802 | M8 (10 x 80mm hole) | Option 1 – Cracked Concrete | 75 | 100 |
| | M10 (12 x 90mm hole) | | 50 | 67 |
| | M12 (14 x 110mm hole) | | 32 | 42 |
| | M16 (18 x 125mm hole) | | 20 | 26 |
| | M20 (22 x 170mm hole) | | 12 | 15 |
| | M24 (28 x 210mm hole) | | 6 | 8 |

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMZ101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMZ161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSMZ202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSMZ243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| ACSMG081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSMG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSMG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| **Flat Cut Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| SFCMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SFCMZ161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SFCMZ202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| SFCMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| SFCMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SFCMG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SFCMG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| SFCMG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |

# CHEMICAL INJECTION VINYLESTER

ZINC YELLOW | HOT DIPPED GALVANISED | STAINLESS STEEL 316


| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **Flat Cut Chemical Anchor Studs (Property Class 8.8)** | | | | | | | | |
| SF8MG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| SF8MG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| SF8MG202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| SF8MG243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSM6101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSM6121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSM6161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSM6202602 | 5 | M20 | 260 | 22 | 170 | 215 | 50 | 22 |
| ACSM6243002 | 5 | M24 | 300 | 28 | 210 | 270 | 55 | 26 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Socket size AF (mm) SW | Installation torque (Nm) $T_{inst}$ | Design Capacities: Uncracked concrete - tension (kN) $N_{Rd}$ | Design Capacities: Uncracked concrete - shear (kN) $V_{Rd}$ |
|---|---|---|---|---|---|---|---|---|
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 110 | 15 | 80 | 110 | 13 | 10 | 11.9 | 7.2 |
| ACSMZ101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.9 | 11.8 |
| ACSMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 16.8 |
| ACSMZ161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 31.2 |
| ACSMZ202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 48.8 |
| ACSMZ243002 | 300 | 55 | 210 | 260 | 36 | 160 | 64.0 | 70.4 |
| ACSMG081102 | 110 | 15 | 80 | 110 | 13 | 10 | 11.9 | 7.2 |
| ACSMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.9 | 11.8 |
| ACSMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 16.8 |
| ACSMG161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 31.2 |
| ACSMG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 48.8 |
| ACSMG243002 | 300 | 55 | 210 | 260 | 36 | 160 | 64.0 | 70.4 |

# CHEMICAL INJECTION
# VINYLESTER

ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316


## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| **Flat Cut Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| SFCMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 16.8 |
| SFCMZ161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 31.2 |
| SFCMZ202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 48.8 |
| SFCMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.9 | 11.8 |
| SFCMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 16.8 |
| SFCMG161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 31.2 |
| SFCMG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 48.8 |
| SFCMG243002 | 300 | 55 | 210 | 260 | 36 | 160 | 64.0 | 70.4 |
| **Flat Cut Chemical Anchor Studs (Property Class 8.8)** | | | | | | | | |
| SF8MG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 27.0 |
| SF8MG161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 50.0 |
| SF8MG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 77.0 |
| SF8MG243002 | 300 | 55 | 210 | 260 | 36 | 160 | 64.0 | 112.0 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 110 | 15 | 80 | 110 | 13 | 10 | 13.2 | 8.3 |
| ACSM6101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.9 | 12.8 |
| ACSM6121602 | 160 | 25 | 110 | 140 | 19 | 40 | 24.8 | 19.2 |
| ACSM6161902 | 190 | 35 | 125 | 160 | 24 | 60 | 30.6 | 35.3 |
| ACSM6202602 | 260 | 50 | 170 | 220 | 30 | 120 | 49.4 | 55.1 |
| ACSM6243002 | 300 | 55 | 210 | 260 | 36 | 160 | 64.0 | 79.5 |

**Note:** Installation in accordance with this information.
Concrete cylinder compressive strength of 32MPa.
Single anchor capacity – no nearby concrete edge with minimum recommended concrete thickness.
In service temperature range I considered, hammer drilled holes.
$\psi_{sus}$ = 1, refer to AS 5216:2021 clause 6.2.5.2 for details.
To address specific design cases, please refer to the product ETA document and contact Bremick for details.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

## MINIMUM CURING TIMES

| Temperature in the concrete substrate | Gel / working time | Minimum curing time - dry concrete hole | Minimum curing time - wet concrete hole |
|---|---|---|---|
| 0°C ≤ substrate < 10°C | 20 minutes | 90 minutes | 180 minutes |
| 10°C ≤ substrate < 20°C | 9 minutes | 60 minutes | 120 minutes |
| 20°C ≤ substrate < 30°C | 5 minutes | 30 minutes | 60 minutes |
| 30°C ≤ substrate < 40°C | 3 minutes | 20 minutes | 40 minutes |
| Cartridge / adhesive temperature ≥ 20°C | | | |

NCC COMPLIANT

# CHEMICAL INJECTION
## POLYESTER


### Features & Benefits

- Ideal for non critical applications
- Intended working life of 50 years
- ETA rating - Option 7 for sizes M8 - M16
- VOC A+ rating
- WRAS Approved for potable drinking water
- LEED Compliance
- Suitable for dry, wet & flooded holes.
- Fast turnaround time

### Application / Trades

- Medium duty connections to concrete.
- Close to edge fixings - handrails, balustrades

| | |
|---|---|
| Strength | High |
| Versatility | 7 Stars |
| Chemical Resistance | 5 Stars |
| Intended Service Life | 50 years |
| Drilled Hole Can Be | Dry / Wet / Flooded |
| Carbide Drilled | ✓ |
| Diamond Cored | ✗ |
| Dustless Drilled | ✗ |
| Shelf Life | 18 Months |
| Install Temperature | -10°C to +35°C |

National Construction Code AS5216

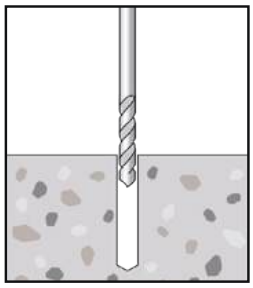
ETA OPTION 7 Uncracked Concrete

50 YEARS SERVICE LIFE

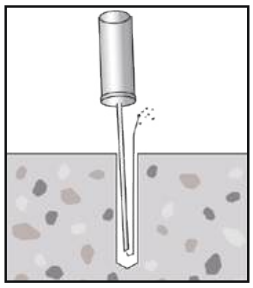
FLOODED HOLE APPROVED

# CHEMICAL INJECTION
# POLYESTER

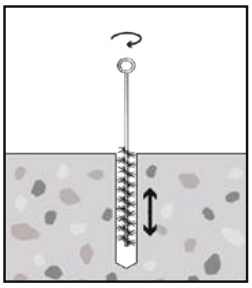

## INSTALLATION



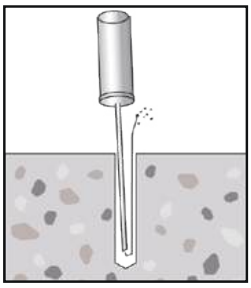
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



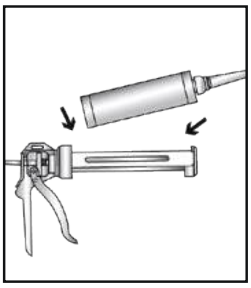
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



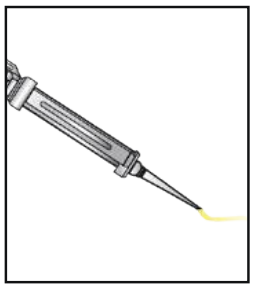
Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.



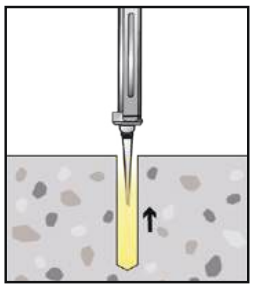
Blow out again at least 4 times.



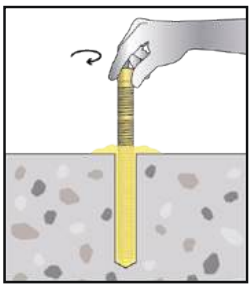
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



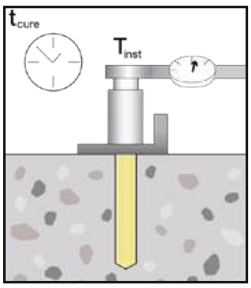
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



With the cartridge nozzle tip at the base of the cleaned drill hole, inject adhesive until the hole is approximately 2/3 full. Slowly withdraw the nozzle from the hole whilst injecting, keeping the nozzle tip immersed in the adhesive. This will avoid creating air pockets within the adhesive.



Ensure the anchor stud is clean and free of contaminants, grease etc. Push the anchor stud into the adhesive – slowly rotating the stud until it is seated against the base of the hole. An excess of adhesive around the top of the hole indicates sufficient material was injected into the hole, otherwise remove the anchor stud and renew the hole with adhesive.




All steps prior must be completed within the working time of the adhesive. Protect the anchor from disturbance until the full curing time has been reached. Once full cure is achieved, carefully place the fixture and apply the specified installation torque.

# CHEMICAL INJECTION POLYESTER

ZINC YELLOW HOT DIPPED GALVANISED STAINLESS STEEL 316


## RANGE

| Product Code & Description | Anchor thread size & drill hole dimensions | ETA Certification level | # Fixings per cartridge (per below Range tables) | |
|---|---|---|---|---|
| | | | 300ml | 410ml |
| **ACIPCSF3002** BremFix Polyester Chemical Injection - 300ml cartridge – Use dispensing tool TMACISF4002 | M8 (10 x 80mm hole) | Option 7 - Uncracked Concrete | 75 | 100 |
| | M10 (12 x 90mm hole) | | 50 | 67 |
| **ACIPCPR4102** BremFix Polyester Chemical Injection - 410ml cartridge – Use dispensing tool TMACICG3802 | M12 (14 x 110mm hole) | | 32 | 42 |
| | M16 (18 x 125mm hole) | | 20 | 26 |

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMZ101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMZ161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| ACSMG081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMG161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSM6101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSM6121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSM6161902 | 10 | M16 | 190 | 18 | 125 | 155 | 35 | 18 |

# CHEMICAL INJECTION
# POLYESTER

ZINC YELLOW | HOT DIPPED GALVANISED | STAINLESS STEEL 316


## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) |
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 110 | 15 | 80 | 110 | 13 | 10 | 6.2 | 7.2 |
| ACSMZ101302 | 130 | 20 | 90 | 120 | 17 | 20 | 9.3 | 11.8 |
| ACSMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 12.4 | 16.8 |
| ACSMZ161902 | 190 | 35 | 125 | 160 | 24 | 60 | 15.1 | 31.2 |
| ACSMG081102 | 110 | 15 | 80 | 110 | 13 | 10 | 6.2 | 7.2 |
| ACSMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 9.3 | 11.8 |
| ACSMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 12.4 | 16.8 |
| ACSMG161902 | 190 | 35 | 125 | 160 | 24 | 60 | 15.1 | 31.2 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 110 | 15 | 80 | 110 | 13 | 10 | 6.2 | 8.3 |
| ACSM6101302 | 130 | 20 | 90 | 120 | 17 | 20 | 9.3 | 12.8 |
| ACSM6121602 | 160 | 25 | 110 | 140 | 19 | 40 | 12.4 | 19.2 |
| ACSM6161902 | 190 | 35 | 125 | 160 | 24 | 60 | 15.1 | 35.3 |

**Note:** Installation in accordance with this information.
Concrete cylinder compressive strength of 32MPa.
Single anchor capacity – no nearby concrete edge with minimum recommended concrete thickness.
In service temperature range I considered, hammer drilled holes.
$\psi_{sus}$ = 1, refer to AS 5216:2021 clause 6.2.5.2 for details.
To address specific design cases, please refer to the product ETA document and contact Bremick for details.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

## MINIMUM GEL & CURING TIMES

| Concrete substrate temperature | Gel / working time | Minimum curing time - dry concrete hole | Minimum curing time - wet concrete hole |
|---|---|---|---|
| -5°C ≤ substrate < 0°C | 40 minutes | 180 minutes | 360 minutes |
| 0°C ≤ substrate < 10°C | 20 minutes | 90 minutes | 180 minutes |
| 10°C ≤ substrate < 20°C | 9 minutes | 60 minutes | 120 minutes |
| 20°C ≤ substrate < 30°C | 5 minutes | 30 minutes | 60 minutes |
| 30°C ≤ substrate < 40°C | 3 minutes | 20 minutes | 40 minutes |
| Cartridge / adhesive temperature ≥ 20°C | | | |

NCC COMPLIANT

# SPIN CAPSULE
## EPOXY ACRYLATE

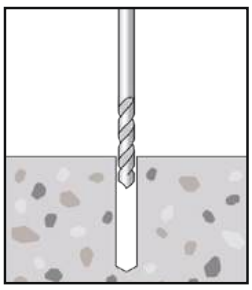

### Features & Benefits

- Ideal for safety critical applications
- Intended working life of 50 years
- No mess, no waste – 1 capsule per hole
- ETA rating – Option 8, Uncracked Concrete
- Ideal for close to edge & close anchor spacing applications
- Fast cure times

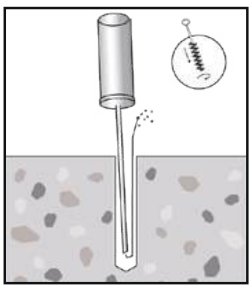
### Application / Trades

- Structural steel connection to concrete
- Plant room equipment hold down
- Hand rails
- Steel framing
- Machinery hold down

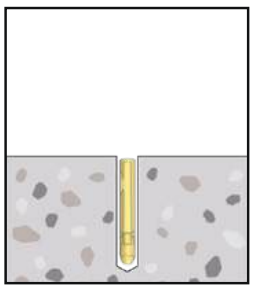
## INSTALLATION



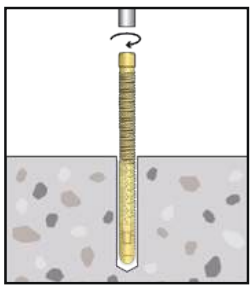
Drill hole into substrate to the specified diameter and depth.



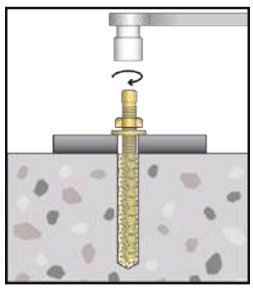
Clean the hole using the following sequence with a blower pump and correctly sized wire / nylon brush: Blow, brush, blow, brush, blow. Protect the hole from contamination prior to completing the installation.



Insert capsule into clean hole.



Using a power tool and the driver bit supplied with the studs, rotate & drive the anchor stud into the capsule until the anchor stud bottoms out in the hole. Stop driving and remove tool / driver at this point. PROTECT THE ANCHOR FROM DISTURBANCE UNTIL THE CURE TIME HAS ELAPSED.



Once the cure time has elapsed, place the fixture and clamp it down using a wrench to tighten to the specified installation torque.

# SPIN CAPSULE
# EPOXY ACRYLATE


ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code | Product Description | Pack Quantity | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ |
|---|---|---|---|---|
| ACCMP080002 | Chemical Capsule M8 | 10 | 10 | 80 |
| ACCMP100002 | Chemical Capsule M10 | 10 | 12 | 90 |
| ACCMP120002 | Chemical Capsule M12 | 10 | 14 | 110 |
| ACCMP160002 | Chemical Capsule M16 | 10 | 18 | 125 |
| ACCMP200002 | Chemical Capsule M20 | 6 | 25 | 170 |
| ACCMP240002 | Chemical Capsule M24 | 6 | 28 | 210 |

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Drill hole depth (mm) $h_1$ | Minimum concrete thickness (mm) $h_{min}$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMZ101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMZ121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMZ161902 | 10 | M16 | 190 | 18 | 125 | 160 | 35 | 18 |
| ACSMZ202602 | 5 | M20 | 260 | 25 | 170 | 220 | 50 | 22 |
| ACSMZ243002 | 5 | M24 | 300 | 28 | 210 | 260 | 55 | 26 |
| ACSMG081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSMG101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSMG121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSMG161902 | 10 | M16 | 190 | 18 | 125 | 160 | 35 | 18 |
| ACSMG202602 | 5 | M20 | 260 | 25 | 170 | 220 | 50 | 22 |
| ACSMG243002 | 5 | M24 | 300 | 28 | 210 | 260 | 55 | 26 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 |
| ACSM6101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 |
| ACSM6121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 |
| ACSM6161902 | 10 | M16 | 190 | 18 | 125 | 160 | 35 | 18 |
| ACSM6202602 | 5 | M20 | 260 | 25 | 170 | 220 | 50 | 22 |
| ACSM6243002 | 5 | M24 | 300 | 28 | 210 | 260 | 55 | 26 |

# SPIN CAPSULE
# EPOXY ACRYLATE


ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Design Capacities: Uncracked concrete - tension (kN) | Design Capacities: Uncracked concrete - shear (kN) |
|---|---|---|---|---|---|---|---|---|
| | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | SW | $T_{inst}$ | $N_{Rd}$ | $V_{Rd}$ |
| **Chemical Anchor Studs (Property Class 5.8)** | | | | | | | | |
| ACSMZ081102 | 110 | 15 | 80 | 110 | 13 | 10 | 11.1 | 7.2 |
| ACSMZ101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.7 | 11.8 |
| ACSMZ121602 | 160 | 25 | 110 | 140 | 19 | 40 | 22.2 | 16.8 |
| ACSMZ161902 | 190 | 35 | 125 | 160 | 24 | 80 | 33.3 | 31.2 |
| ACSMZ202602 | 260 | 50 | 170 | 220 | 30 | 120 | 50.0 | 48.8 |
| ACSMZ243002 | 300 | 55 | 210 | 260 | 36 | 180 | 66.7 | 70.4 |
| ACSMG081102 | 110 | 15 | 80 | 110 | 13 | 10 | 11.1 | 7.2 |
| ACSMG101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.7 | 11.8 |
| ACSMG121602 | 160 | 25 | 110 | 140 | 19 | 40 | 22.2 | 16.8 |
| ACSMG161902 | 190 | 35 | 125 | 160 | 24 | 80 | 33.3 | 31.2 |
| ACSMG202602 | 260 | 50 | 170 | 220 | 30 | 120 | 50.0 | 48.8 |
| ACSMG243002 | 300 | 55 | 210 | 260 | 36 | 180 | 66.7 | 70.4 |
| **Chemical Anchor Studs (Stainless Steel A4 - 70)** | | | | | | | | |
| ACSM6081102 | 110 | 15 | 80 | 110 | 13 | 10 | 11.1 | 8.3 |
| ACSM6101302 | 130 | 20 | 90 | 120 | 17 | 20 | 16.7 | 12.8 |
| ACSM6121602 | 160 | 25 | 110 | 140 | 19 | 40 | 22.2 | 19.2 |
| ACSM6161902 | 190 | 35 | 125 | 160 | 24 | 80 | 33.3 | 35.2 |
| ACSM6202602 | 260 | 50 | 170 | 220 | 30 | 120 | 50.0 | 55.0 |
| ACSM6243002 | 300 | 55 | 210 | 260 | 36 | 180 | 66.7 | 79.4 |

**Note:** Concrete cylinder compressive strength = 32MPa.
Single anchor capacity – no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) – must also comply with $( N^* / N_{Rd} ) + ( V^* / V_{Rd} ) \leq 1.2$.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

## MINIMUM CURING TIMES

| Temperature in the concrete substrate | Minimum curing time – dry concrete hole | Minimum curing time – wet concrete hole |
|---|---|---|
| ≥ 0°C | 5 hours | 10 hours |
| ≥ +5°C | 1 hour | 2 hours |
| ≥ +20°C | 20 minutes | 40 minutes |
| ≥ +30°C | 10 minutes | 20 minutes |

# CHEMICAL ANCHORING SYSTEM


| | | | | |
|---|---|---|---|---|
| **Strength** | **Extreme** | **Very High** | **High** | **Very High** |
| **Versatility** | 9 Stars | 9 Stars | 7 Stars | 7 Stars |
| **Chemical Resistance** | 9 Stars | 8 Stars | 5 Stars | 8 Stars |
| **Intended Service Life** | 100 years | 100 years | 50 years | 50 years |
| **Drilled Hole Can Be** | Dry / Wet / Flooded | Dry / Wet / Flooded | Dry / Wet / Flooded | Dry / Wet |
| **Carbide Drilled** | ✓ | ✓ | ✓ | ✓ |
| **Diamond Cored** | ✓ | ✗ | ✗ | ✗ |
| **Dustless Drilled** | ✓ | ✓ | ✗ | ✗ |
| **Shelf Life** | 24 Months | 18 Months | 18 Months | 18 Months |

# CHEMICAL ANCHOR STUD

## HEX DRIVE / CHISEL POINT

### Features & Benefits

- Available in Zinc Plated, Hot Dipped Galvanised and 316 Stainless Steel
- Concise range from M8 to M24
- External hex drive head and chisel point make it easy to correctly mix the resin & hardener for BremFix chemical capsules – a hex driver is supplied with each pack of Chemical Anchor Studs
- Carbon Steel, Property Class 5.8
- Stainless Steel A4 / 316, Property Class 70
- The depth setting collar aligns with the concrete surface when the correct drilled hole depth is achieved

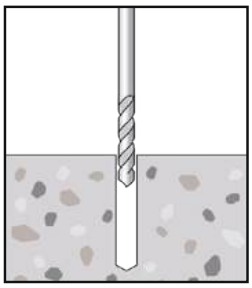
### Application / Trades

- Use in conjunction with Bremick Chemical Injection & Chemical Capsule anchoring products

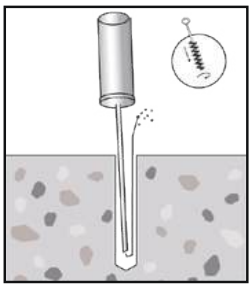
Convenient external hex drive head with driver bit included

Correct install depth mark on stud aligns with concrete surface

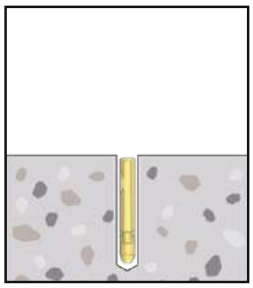
## TYPICAL INSTALLATION – SPIN CAPSULE ANCHORING



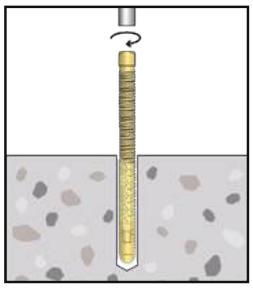
Drill hole



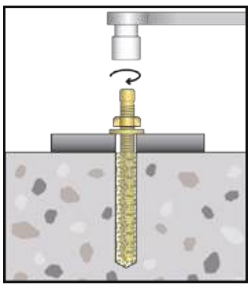
Clean hole



Insert capsule



Install stud



Secure fixture

Typical steps required for installation of Bremick Spin Capsules. Please refer to the product specific installation method for details.

# CHEMICAL ANCHOR STUD
## HEX DRIVE / CHISEL POINT

ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ |
|---|---|---|---|---|
| ACSMZ081102 | 10 | M8 | 110 | 15 |
| ACSMZ101302 | 10 | M10 | 130 | 20 |
| ACSMZ121602 | 10 | M12 | 160 | 25 |
| ACSMZ161902 | 10 | M16 | 190 | 35 |
| ACSMZ202602 | 5 | M20 | 260 | 50 |
| ACSMZ243002 | 5 | M24 | 300 | 55 |
| ACSMG081102 | 10 | M8 | 110 | 15 |
| ACSMG101302 | 10 | M10 | 130 | 20 |
| ACSMG121602 | 10 | M12 | 160 | 25 |
| ACSMG161902 | 10 | M16 | 190 | 35 |
| ACSMG202602 | 5 | M20 | 260 | 50 |
| ACSMG243002 | 5 | M24 | 300 | 55 |
| ACSM6081102 | 10 | M8 | 110 | 15 |
| ACSM6101302 | 10 | M10 | 130 | 20 |
| ACSM6121602 | 10 | M12 | 160 | 25 |
| ACSM6161902 | 10 | M16 | 190 | 35 |
| ACSM6202602 | 5 | M20 | 260 | 50 |
| ACSM6243002 | 5 | M24 | 300 | 55 |

NCC COMPLIANT

# CHEMICAL ANCHOR STUD
## FLAT CUT END

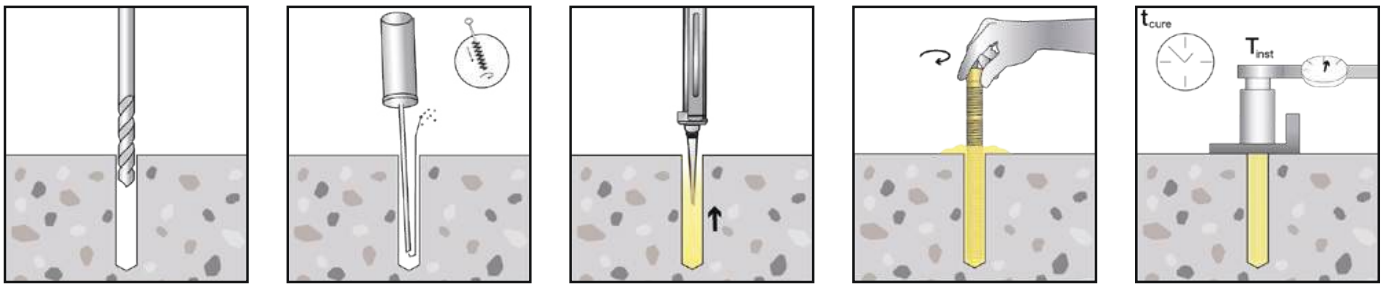
### Features & Benefits

- Available in Zinc Plated & Hot Dipped Galvanised carbon steel
- Ideal for use with Bremick Chemical Injection anchoring products
- Carbon Steel, Property Class 5.8
  - M12 – M20 Zinc Plated
  - M10 – M24 Hot Dipped Galvanised
- Carbon Steel, Property Class 8.8
  - M12 – M30 Hot Dipped Galvanised

### Application / Trades

- Use in conjunction with Bremick Chemical Injection anchoring products – not for use with Chemical Capsules

## TYPICAL INSTALLATION – CHEMICAL INJECTION ANCHORING




Drill hole | Clean hole | Inject chemical | Install stud | Secure fixture

Typical steps required for installation of Bremick Chemical Injection anchoring products. Please refer to individual products for their specific installation method for details.

# CHEMICAL ANCHOR STUD
## FLAT CUT END

ZINC YELLOW  HOT DIPPED GALVANISED

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|
| **Flat Cut Chemical Anchor Studs (Property Class 5.8)** | | | | |
| SFCMZ121602 | 10 | M12 | 160 | 14 |
| SFCMZ161902 | 10 | M16 | 190 | 18 |
| SFCMZ202602 | 5 | M20 | 260 | 22 |
| SFCMG101302 | 10 | M10 | 130 | 12 |
| SFCMG121602 | 10 | M12 | 160 | 14 |
| SFCMG161902 | 10 | M16 | 190 | 18 |
| SFCMG202602 | 5 | M20 | 260 | 22 |
| SFCMG243002 | 5 | M24 | 300 | 26 |
| **Flat Cut Chemical Anchor Studs (Property Class 8.8)** | | | | |
| SF8MG121602 | 10 | M12 | 160 | 14 |
| SF8MG161902 | 10 | M16 | 190 | 18 |
| SF8MG202602 | 5 | M20 | 260 | 22 |
| SF8MG243002 | 5 | M24 | 300 | 26 |
| SF8MG303802 | 2 | M30 | 380 | 33 |

# CHEMICAL ACCESSORIES

## Features & Benefits

- A range of accessories to deliver great results with the Bremick range of Chemical Anchoring products
- Hole cleaning equipment to produce clean drilled holes - vital to achieve published performance data
- Industrial grade Dispensing Tools to deliver Chemical Injection products reliably even in the toughest conditions

## Application / Trades

- Fixings into solid substrates - concrete, solid Masonry & stone
- For hollow brick & block, hollow masonry sleeves ensure reliable results
- Hole cleaning products are vital for great results with Chemical Spin Capsules too!

## COMMON USE
## HOLE CLEANING

### RANGE - HOLE CLEANING BRUSHES

| Product Code | Pack Quantity | Brush size (mm) (Ø x brush length x total length) | Suitable for use with |
|---|---|---|---|
| ACIHCMB0102 | 1 | 10 x 80 x 300 | All chemical anchor products |
| ACIHCMB0142 | 1 | 14 x 80 x 300 | |
| ACIHCMB0182 | 1 | 18 x 80 x 300 | |
| ACIHCMB0222 | 1 | 22 x 80 x 300 | |
| ACIHCMB0282 | 1 | 28 x 80 x 300 | |

### RANGE - HOLE CLEANING BLOW PUMP

| Product Code | Pack Quantity | Description | Suitable for use with |
|---|---|---|---|
| ACIBPLD0012 | 1 | High volume, manual | Drill holes ≥ 10mm diameter |

# SUITABLE FOR **PURE EPOXY**

### RANGE - DISPENSING TOOL 585ml

| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| TMACISE5852 | 1 | 3:1 ratio, side by side, 585ml | Pure Epoxy (ACIPCSE5852) |

### RANGE - STATIC MIXING NOZZLE

| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| ACIMIXEPOX2 | 10 | Additional nozzles for cartridge | Pure Epoxy (ACIPCSE5852) |

# SUITABLE FOR **POLYESTER AND VINYLESTER**

### RANGE - DISPENSING TOOL 300ml

| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| TMACISF4002 | 1 | Single piston, 300ml | Polyester 300ml (ACIPCSF3002)<br>Vinylester 300ml (ACIPCVR3002) |

### RANGE - DISPENSING TOOL 410ml

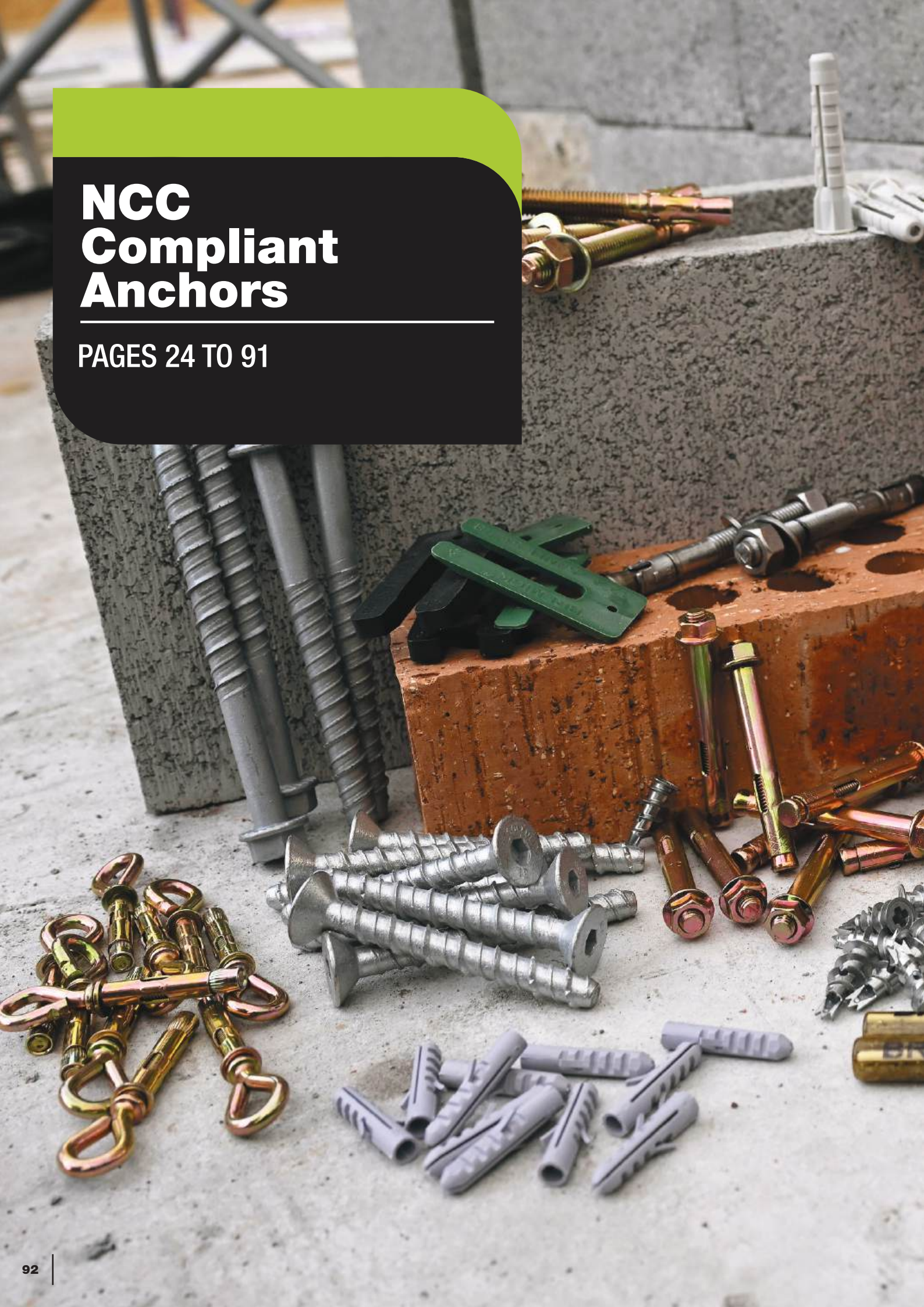
| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| TMACICG3802 | 1 | 10:1 ratio, co - axial, 410ml | Polyester 410ml (ACIPCPR4102)<br>Vinylester 410ml (ACIPCVR4102) |

### RANGE - STATIC MIXING NOZZLE

| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| ACIMIXR0102 | 10 | Additional nozzles for cartridge | Polyester & Vinylester - all sizes |

### RANGE - NYLON HOLLOW MASONRY SLEEVES

| Product Code | Pack Quantity | Description | Suitable for use with Chemical Injection |
|---|---|---|---|
| ACISP120502 | 10 | Ø12 x 50 length | Polyester & Vinylester – M10 studs |
| ACISP150852 | 10 | Ø15 x 85 length | Polyester & Vinylester – M12 studs |
| ACISP151302 | 10 | Ø15 x 130 length | Polyester & Vinylester – M12 studs |
| ACISP200852 | 10 | Ø20 x 85 length | Polyester & Vinylester – M16 studs |



# NCC Compliant Anchors

PAGES 24 TO 91


# Non Safety Critical Anchors

PAGES 94 TO 184

NON SAFETY CRITICAL

# SCREW ANCHOR
## FLANGE HEX HEAD


### Features & Benefits

- High tensile single piece anchor, cuts thread into substrate
- Ideal for close to edge & close anchor spacing applications
- Fully removable – ideal for temporary works
- Convenient through fixture fastening

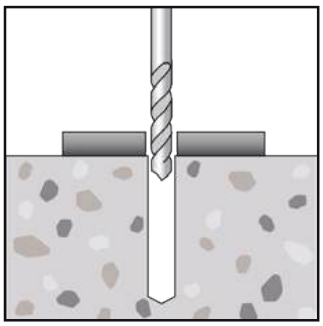
### Application / Trades

- Timber bottom plate tie down.
- Medium load applications into brick & block
- Temporary fixings – event barriers / hand rails

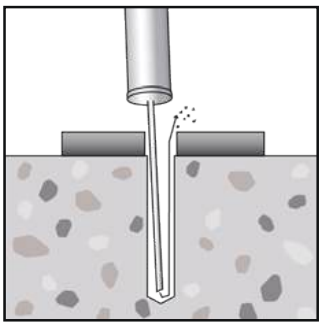
Serrated flange head for improved load distribution & anti-slip functionality

Serrated threads increase pull out performance

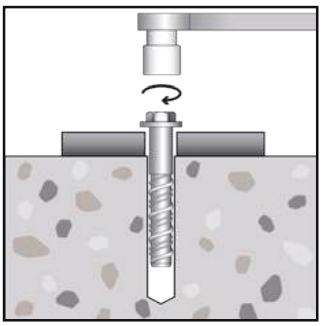
## INSTALLATION



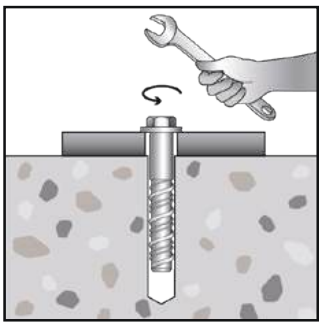
Drill hole through fixture into substrate to the specified diameter and depth



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten until the fixture is firmly clamped.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# FLANGE HEX HEAD

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Anchor/Drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASBMZ050502 | 100 | 5 | 50 | 25 | 30 | 25 | 9 |
| ASBMZ060302 | 100 | 6 | 30 | 5 | 35 | 25 | 10 |
| ASBMZ060502 | | | 50 | 20 | 40 | 30 | |
| ASBMZ060752 | | | 75 | 45 | 40 | 30 | |
| ASBMZ061002 | | | 100 | 70 | 40 | 30 | |
| ASBMZ080502 | 100 | 8 | 50 | 10 | 50 | 40 | 12 |
| ASBMZ080602 | | | 60 | 20 | | | |
| ASBMZ080752 | | | 75 | 35 | | | |
| ASBMZ081002 | | | 100 | 60 | | | |
| ASBMZ100602 | 50 | 10 | 60 | 10 | 60 | 50 | 14 |
| ASBMZ100752 | 50 | | 75 | 25 | | | |
| ASBMZ101002 | 50 | | 100 | 50 | | | |
| ASBMZ101202 | 50 | | 120 | 70 | | | |
| ASBMZ101502 | 20 | | 150 | 100 | | | |
| ASBMZ120752 | 50 | 12 | 75 | 15 | 75 | 60 | 16 |
| ASBMZ121002 | 50 | | 100 | 40 | | | |
| ASBMZ121502 | 20 | | 150 | 90 | | | |
| ASBMZ160752 | 10 | 16 | 75 | 5 | 90 | 70 | 20 |
| ASBMZ161002 | | | 100 | 20 | 100 | 80 | |
| ASBMZ161502 | | | 150 | 70 | 100 | 80 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual)

# SCREW ANCHOR
# FLANGE HEX HEAD

MECHANICAL GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor/Drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASBMG050502 | 100 | 5 | 50 | 25 | 30 | 25 | 9 |
| ASBMG060302 | 100 | 6 | 30 | 5 | 35 | 25 | 10 |
| ASBMG060502 | | | 50 | 20 | 40 | 30 | |
| ASBMG060752 | | | 75 | 45 | 40 | 30 | |
| ASBMG061002 | | | 100 | 70 | 40 | 30 | |
| ASBMG080502 | 100 | 8 | 50 | 10 | 50 | 40 | 12 |
| ASBMG080602 | | | 60 | 20 | | | |
| ASBMG080752 | | | 75 | 35 | | | |
| ASBMG081002 | | | 100 | 60 | | | |
| ASBMG100602 | 50 | 10 | 60 | 10 | 60 | 50 | 14 |
| ASBMG100752 | 50 | | 75 | 25 | | | |
| ASBMG101002 | 50 | | 100 | 50 | | | |
| ASBMG101252 | 20 | | 125 | 75 | | | |
| ASBMG101502 | 20 | | 150 | 100 | | | |
| ASBMG120752 | 50 | 12 | 75 | 15 | 75 | 60 | 16 |
| ASBMG121002 | 50 | | 100 | 40 | | | |
| ASBMG121502 | 20 | | 150 | 90 | | | |
| ASBMG160752 | 10 | 16 | 75 | 5 | 90 | 70 | 20 |
| ASBMG161002 | | | 100 | 20 | 100 | 80 | |
| ASBMG161502 | | | 150 | 70 | 100 | 80 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# SCREW ANCHOR
# FLANGE HEX HEAD

ZINC PLATED  MECHANICAL GALVANISED

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor/ Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|
| | | | | | | Tensile (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 5 | 25 | 75 | 8 | 60 | 30 | 1.5 | 1.7 |
| 6 | 25 | 75 | 10 | 60 | 30 | 1.4 | 1.7 |
| | 30 | | | 75 | 40 | 1.9 | 2.6 |
| 8 | 40 | 80 | 13 | 100 | 50 | 3.0 | 3.9 |
| 10 | 50 | 100 | 17 | 120 | 60 | 4.1 | 5.3 |
| 12 | 60 | 120 | 19 | 145 | 75 | 5.5 | 7.6 |
| 16 | 70 | 140 | 24 | 165 | 85 | 6.5 | 9.6 |
| | 80 | 160 | | 195 | 100 | 8.4 | 12.2 |

**Note:** Recommended capacities are based on:

– Single anchor.

– Critical anchor spacing and edge distance values.

– 20MPa concrete compressive strength.

– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).

– Shear load directed away from concrete edge.

– For combined load cases (tension & shear) – must also comply with $(N_{app} / N_{rec}) + (V_{app} / V_{rec}) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SCREW ANCHOR
## COUNTERSUNK HEAD

### Features & Benefits

- High tensile single piece anchor, cuts thread into substrate
- Ideal for close to edge & close anchor spacing applications
- Fully removable – ideal for temporary works
- Can load immediately after installing
- Convenient through fixture fastening

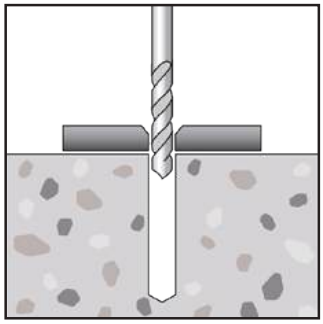
### Application / Trades

- Timber bottom plate tie down
- Medium load applications into brick & block
- Temporary fixings – event barriers / hand rails

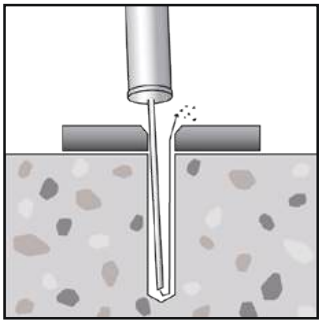
High tensile steel for superior strength

Serrated threads increase pull out performance

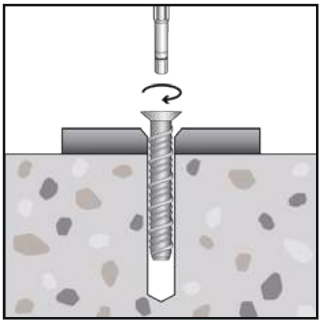
## INSTALLATION



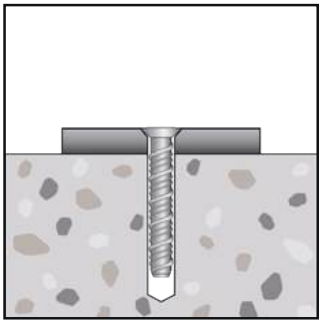
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using hand or power tool to drive the driver bit. Apply constant forward pressure when driving and tighten to the specified torque.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# COUNTERSUNK HEAD

MECHANICAL GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor/Drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\,max}$ (mm) | Minimum embedment depth @ $t_{fix,\,max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASBKG060502 | 100 | 6 | 50 | 20 | 40 | 30 | 10 |
| ASBKG060752 | | | 75 | 45 | | | |
| ASBKG061002 | | | 100 | 70 | | | |
| ASBKG080602 | 100 | 8 | 60 | 20 | 50 | 40 | 12 |
| ASBKG080752 | | | 75 | 35 | | | |
| ASBKG081002 | | | 100 | 60 | | | |
| ASBKG100602 | 50 | 10 | 60 | 10 | 60 | 50 | 14 |
| ASBKG100752 | | | 75 | 25 | | | |
| ASBKG101002 | | | 100 | 50 | | | |
| ASBKG120752 | 50 | 12 | 75 | 15 | 75 | 60 | 16 |
| ASBKG121002 | 20 | | 100 | 40 | | | |
| ASBKG121502 | | | 150 | 90 | | | |

**Note:** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor/ Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Driver bit size | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|
| | | | | | | Tensile (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | H | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6 | 30 | 75 | T30 | 75 | 40 | 1.9 | 2.6 |
| 8 | 40 | 80 | 6mm Hex | 100 | 50 | 3.0 | 3.9 |
| 10 | 50 | 100 | 8mm Hex | 120 | 60 | 4.1 | 5.3 |
| 12 | 60 | 120 | 10mm Hex | 145 | 75 | 5.5 | 7.6 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $(N_{app} / N_{rec}) + (V_{app} / V_{rec}) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SCREW ANCHOR
## TIE DOWN

### Features & Benefits

- High tensile single piece anchor, cuts thread into substrate
- Ideal for close to edge & close anchor spacing applications
- Fully removable – ideal for temporary works
- Can load immediately after installing
- Convenient through fixture fastening

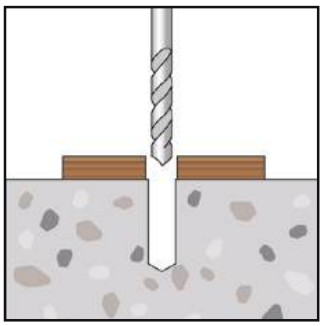
### Application / Trades

- Timber bottom & top plate tie down

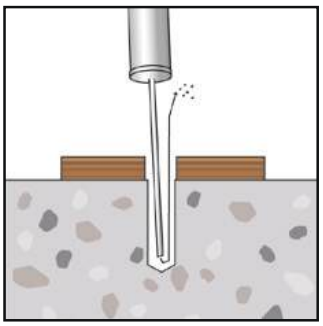
M12 Internal thread

High tensile steel for superior strength

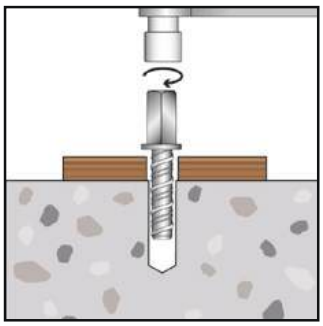
## INSTALLATION



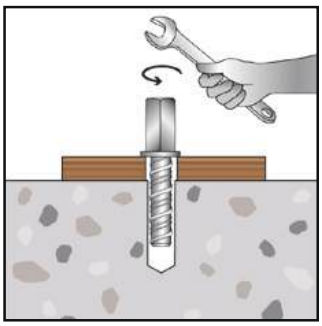
Drill hole through fixture into substrate to the specified diameter and depth



Clear hole of drilling debris.



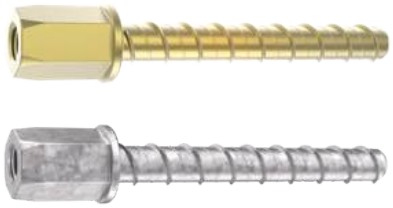
Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten until the fixture is firmly clamped.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

# SCREW ANCHOR
# TIE DOWN

ZINC YELLOW  MECHANICAL GALVANISED



## RANGE

| Product Code | Pack Quantity | Anchor/Drill hole Ø (mm) | Anchor length (mm) | Maximum bottom plate thickness* (mm) | Drill hole depth* @ $t_{fix,\ ma}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASIMY121002 | 25 | 12 | 100 | 45 | 70 | 55 | 16 |
| ASIMY121502 | | | 150 | 90 | 75 | 60 | |
| ASIMG121002 | 25 | 12 | 100 | 45 | 70 | 55 | 16 |
| ASIMG121502 | | | 150 | 90 | 75 | 60 | |

**Note:** * For a bottom plate thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor/ Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|
| | | | | | | Tensile (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 12 | 55 | 120 | 19 | 130 | 45 | 3.7 | 3.7 |
| 12 | 60 | 120 | 19 | 145 | 100 | 5.5 | 10.9 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $(N_{app} / N_{rec}) + (V_{app} / V_{rec}) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SCREW ANCHOR
## EYE BOLT

### Features & Benefits

- High tensile single piece anchor, cuts thread into substrate
- Ideal for close to edge & close anchor spacing applications
- Fully removable – ideal for temporary works
- Can load immediately after installing

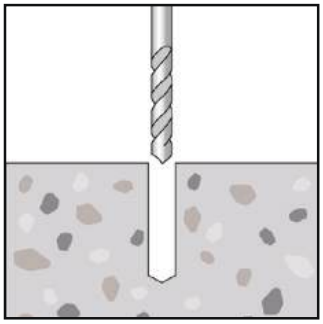
### Application / Trades

- Medium load applications into solid brick & block
- Shade sails
- Lashing points

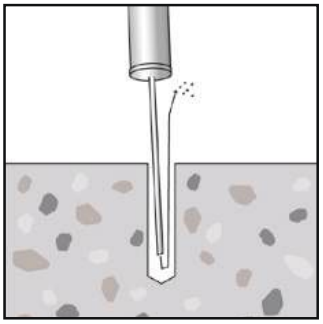
High tensile steel for superior strength

Serrated threads increase pull out performance

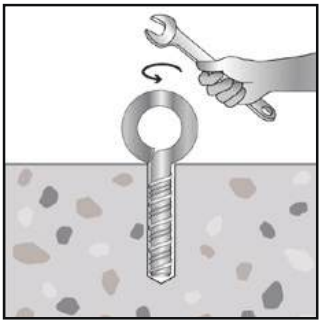
## INSTALLATION



Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner or round bar through the eye. Apply constant forward pressure when driving and tighten to reach the required embedment depth.

# SCREW ANCHOR
# EYE BOLT

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Anchor/Drill hole Ø (mm) | Anchor length (mm) | Drill hole depth (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) |
|---|---|---|---|---|---|---|
| | | | $l_t$ | $h_1$ | $h_{nom}$ | $h_{min}$ |
| ASEMZ080552 | 50 | 8 | 55 | 70 | 55 | 110 |

Capacity of Eyebolt variant limited to 50kg load applied as shown.

**Note:** 20MPa concrete compressive strength.
Internal diameter of eye is 13mm

**Important Disclaimer:** Capacity information on page 208 applies.

Capacity in direction shown

NON SAFETY CRITICAL

# THROUGH BOLT
## HEX NUT

### Features & Benefits

- Medium to heavy duty torque controlled expansion anchor
- Convenient through fixture fastening
- Load immediately after installing
- Extensive range covers a multitude of applications
- Optimised for high shear loads

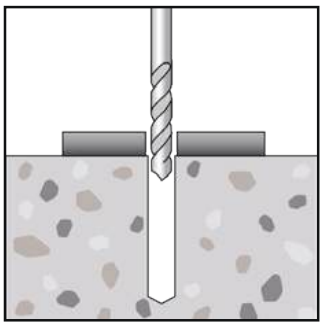
### Application / Trades

- Warehouse racking
- Conveyor lines / production plant
- Plant room equipment hold down
- Safety barriers
- Timber bottom plate hold down

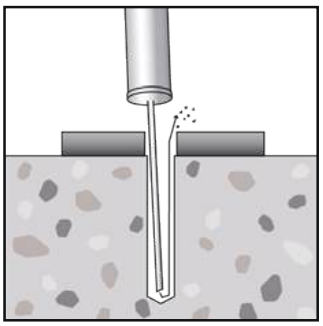
Long thread section accommodates a wide range of fixture thicknesses

Cold forged construction ensures superior strength and reliability.

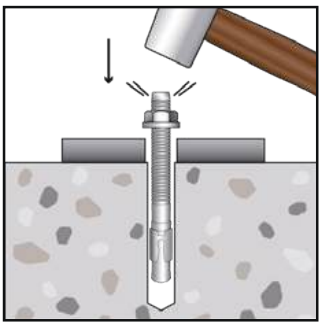
## INSTALLATION



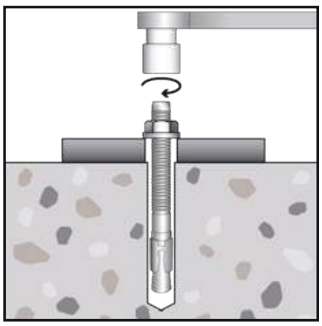
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# THROUGH BOLT
# HEX NUT

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ATBMZ060652 | 20 | 6 | M6 | 65 | 19 | 50 | 37 | 8 |
| ATBMZ060852 | 100 | | | 85 | 39 | 50 | 37 | |
| ATBMZ061002 | 20 | | | 100 | 54 | 50 | 37 | |
| ATBMZ061202FT** | 50 | | | 120 | 70 | 55 | 41 | |
| ATBMZ061502FT** | 20 | | | 150 | 100 | 55 | 41 | |
| ATBMZ061802FT** | 20 | | | 180 | 130 | 55 | 41 | |
| ATBMZ080502 | 20 | 8 | M8 | 50 | 3 | 50 | 35 | 10 |
| ATBMZ080652 | 20 | | | 65 | 11 | 55 | 42 | |
| ATBMZ080802 | 50 | | | 80 | 18 | 60 | 50 | |
| ATBMZ081002 | 20 | | | 100 | 38 | 60 | 50 | |
| ATBMZ100652 | 25 | 10 | M10 | 65 | 3 | 60 | 47 | 12 |
| ATBMZ100752 | 20 | | | 75 | 13 | 60 | 47 | |
| ATBMZ100902 | 25 | | | 90 | 23 | 65 | 52 | |
| ATBMZ101202 | 25 | | | 120 | 53 | 65 | 52 | |
| ATBMZ120802 | 20 | 12 | M12 | 80 | 5 | 70 | 57 | 14 |
| ATBMZ121002 | | | | 100 | 19 | 75 | 63 | |
| ATBMZ121202 | | | | 120 | 39 | 75 | 63 | |
| ATBMZ121402 | | | | 140 | 47 | 90 | 75 | |
| ATBMZ121802 | | | | 180 | 87 | 90 | 75 | |
| ATBMZ161052 | 20 | 16 | M16 | 105 | 5 | 95 | 76 | 18 |
| ATBMZ161252 | | | | 125 | 17 | 100 | 84 | |
| ATBMZ161402 | | | | 140 | 32 | 100 | 84 | |
| ATBMZ161802 | | | | 180 | 56 | 120 | 100 | |
| ATBMZ161902 | | | | 190 | 66 | 120 | 100 | |
| ATBMZ201252 | 10 | 20 | M20 | 125 | 5 | 115 | 90 | 24 |
| ATBMZ201602 | | | | 160 | 25 | 125 | 105 | |
| ATBMZ202002 | | | | 200 | 45 | 145 | 125 | |
| ATBMZ202152 | | | | 215 | 60 | 145 | 125 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)
** These lines are fully threaded.

# THROUGH BOLT
## HEX NUT

HOT DIPPED GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ATBMG080502 | 20 | 8 | M8 | 50 | 3 | 50 | 35 | 10 |
| ATBMG080752 | | | | 75 | 13 | 60 | 50 | |
| ATBMG080952 | | | | 95 | 33 | 60 | 50 | |
| ATBMG100652 | 20 | 10 | M10 | 65 | 3 | 60 | 47 | 12 |
| ATBMG100752 | | | | 75 | 8 | 65 | 52 | |
| ATBMG100902 | | | | 90 | 13 | 75 | 62 | |
| ATBMG101202 | | | | 120 | 43 | 75 | 62 | |
| ATBMG120802 | 20 | 12 | M12 | 80 | 5 | 70 | 57 | 14 |
| ATBMG121002 | | | | 100 | 19 | 75 | 63 | |
| ATBMG121202 | | | | 120 | 27 | 90 | 75 | |
| ATBMG121402 | | | | 140 | 47 | 90 | 75 | |
| ATBMG121802 | | | | 180 | 87 | 90 | 75 | |
| ATBMG161052 | 20 | 16 | M16 | 105 | 5 | 95 | 76 | 18 |
| ATBMG161252 | | | | 125 | 17 | 100 | 84 | |
| ATBMG161402 | | | | 140 | 16 | 120 | 100 | |
| ATBMG161802 | | | | 180 | 56 | 120 | 100 | |
| ATBMG201252 | 10 | 20 | M20 | 125 | 5 | 115 | 90 | 24 |
| ATBMG201602 | | | | 160 | 25 | 125 | 105 | |
| ATBMG202002 | | | | 200 | 45 | 145 | 125 | |
| ATBMG202152 | | | | 215 | 60 | 145 | 125 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# THROUGH BOLT
## HEX NUT

STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ATBM6060652 | 20 | 6 | M6 | 65 | 19 | 50 | 37 | 8 |
| ATBM6080502 | 20 | 8 | M8 | 50 | 3 | 50 | 35 | 10 |
| ATBM6080602 | | | | 60 | 6 | 55 | 42 | |
| ATBM6080802 | | | | 80 | 18 | 60 | 50 | |
| ATBM6080902 | | | | 90 | 28 | 60 | 50 | |
| ATBM6100652 | 20 | 10 | M10 | 65 | 3 | 60 | 47 | 12 |
| ATBM6100752 | | | | 75 | 8 | 65 | 52 | |
| ATBM6100902 | | | | 90 | 13 | 75 | 62 | |
| ATBM6101202 | | | | 120 | 43 | 75 | 62 | |
| ATBM6120802 | 20 | 12 | M12 | 80 | 5 | 70 | 57 | 14 |
| ATBM6121002 | | | | 100 | 19 | 75 | 63 | |
| ATBM6121202 | | | | 120 | 27 | 90 | 75 | |
| ATBM6121402 | | | | 140 | 47 | 90 | 75 | |
| ATBM6161052 | 20 | 16 | M16 | 105 | 5 | 95 | 76 | 18 |
| ATBM6161252 | | | | 125 | 25 | 95 | 76 | |
| ATBM6161402 | | | | 140 | 32 | 100 | 84 | |
| ATBM6161802 | | | | 180 | 56 | 120 | 100 | |
| ATBM6201252 | 10 | 20 | M20 | 125 | 5 | 115 | 90 | 24 |
| ATBM6201602 | | | | 160 | 25 | 125 | 105 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# THROUGH BOLT
## HEX NUT

ZINC YELLOW  HOT DIPPED GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embed-ment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Tensile (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6 | 37 | 75 | 10 | 5 | 100 | 50 | 2.7 | 2.0 |
| 8 | 35 | 75 | 13 | 15 | 120 | 60 | 2.0 | 2.0 |
| | 42 | | | | | | 3.0 | 3.6 |
| | 50 | | | | | | 4.1 | 3.6 |
| 10 | 47 | 100 | 17 | 30 | 150 | 75 | 3.4 | 3.4 |
| | 52 | | | | | | 4.1 | 5.8 |
| | 62 | | | | | | 4.7 | 5.8 |
| 12 | 57 | 120 | 19 | 45 | 180 | 90 | 4.5 | 4.5 |
| | 63 | | | | | | 5.5 | 8.4 |
| | 75 | | | | | | 6.6 | 8.4 |
| 16 | 76 | 150 | 24 | 110 | 240 | 120 | 6.9 | 6.9 |
| | 84 | | | | | | 8.4 | 15.6 |
| | 100 | | | | | | 9.7 | 15.6 |
| 20 | 90 | 190 | 30 | 180 | 250 | 125 | 8.6 | 8.6 |
| | 105 | | | | 250 | 125 | 11.7 | 17.7 |
| | 125 | | | | 300 | 150 | 13.3 | 23.4 |

**Note:** Recommended capacities are based on:

– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# THROUGH BOLT
## SUSPENSION TIE WIRE

ZINC YELLOW

### Features & Benefits

- Economical zinc plated finish for dry, internal applications
- Simple installation, fully assembled anchor
- Available in a range of lengths to enable installing through insulation

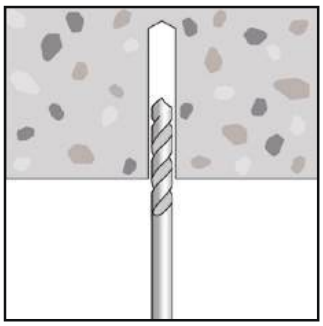
### Application / Trades

- Light duty applications
- Suspended ceiling supports
- Cable supports

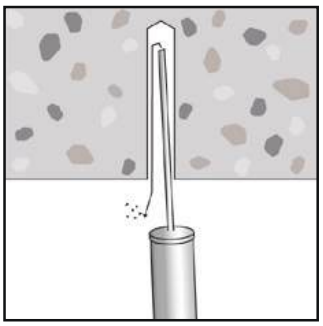
Eyelet creates an anchor point for tie wire

Pre-assembled for fast and easy installation

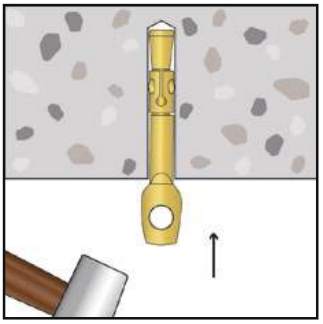
### INSTALLATION



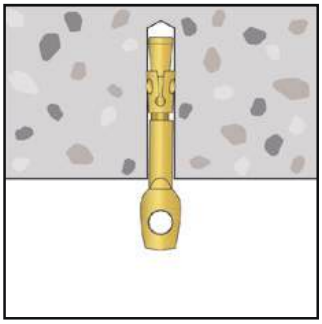
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert the anchor into the hole and drive until head is just shy of the concrete surface.



Using a claw hammer, pull head of the anchor away from the concrete firmly to set the sleeve.

# THROUGH BOLT
# SUSPENSION TIE WIRE

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor size / Drill hole Ø (mm) | Anchor length (mm) | Drill hole depth (mm) | Minimum embedment depth (mm) | Recommended capacity Tensile (kN) |
|---|---|---|---|---|---|---|
| | | | $l_t$ | $h_1$ | $h_{nom}$ | $N_{rec}$ |
| ATWMZ060602 | 100 | 6 | 60 | 50 | 40 | 1.5 |
| ATWMZ060902 | 100 | | 90 | | | |
| ATWMZ061202 | 50 | | 120 | | | |
| ATWMZ061502 | 50 | | 150 | | | |

**Note:**
- Recommended capacity based on:
- Single anchor.
- 20MPa concrete compressive strength.
- Static tensile load only.

**Important Disclaimer:** Capacity information on page 208 applies.

Capacity in direction shown

NON SAFETY CRITICAL

# DROP IN ANCHOR
## INTERNAL THREAD

### Features & Benefits

- Medium duty displacement controlled expansion anchor
- Anchor remains in place after fixture & bolt are removed
- Internal ISO metric coarse thread accepts a wide range of bolts and threaded rod
- Leaves no protrusion once fixture removed - ideal for make good in leased space environments
- Lipped version ensures anchor remains flush to surface regardless of drilled hole depth

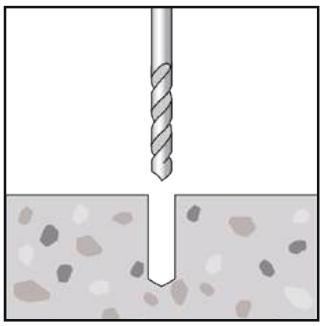
### Application / Trades

- Suspended services to concrete slab soffit
- Balustrade and hand rail base plates.
- Stadium seating
- Suspended ceilings
- Not suited to through fastening applications

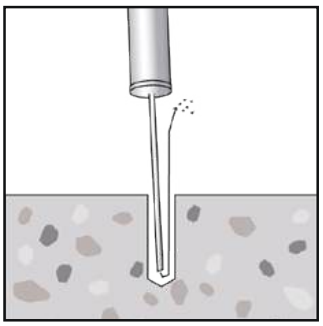
Designed to install flush to the substrate surface

Uses a simple setting tool to expand the anchor

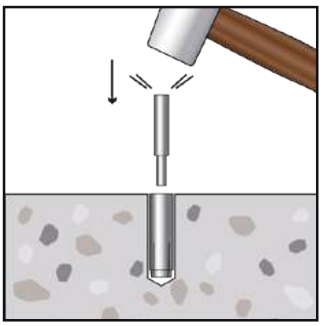
## INSTALLATION



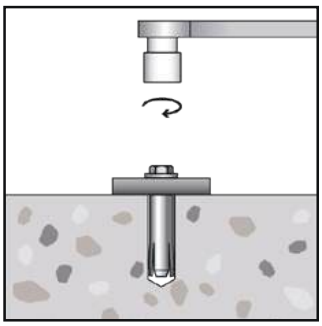
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Tap anchor into the drilled hole using a hammer until flush with substrate surface. Impact the setting tool with a hammer until the setting tool shoulder contacts the top of the anchor's body.



Place fixture, install bolt / threaded rod and apply specified installation torque.

# DROP IN ANCHOR
# INTERNAL THREAD

ZINC YELLOW  STAINLESS STEEL 316

## STRAIGHT WALL / INTERNAL THREAD

| Product Code | Pack Quantity | Anchor size/ Thread size | Drill hole Ø (mm) | Anchor length/ Drill hole depth (mm) $l_t$ & $h_1$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|
| ADIMZ060002 | 100 | M6 | 8 | 25 | 8 |
| ADIMZ080002 | 50 | M8 | 10 | 30 | 10 |
| ADIMZ100002 | 50 | M10 | 12 | 40 | 12 |
| ADIMZ120002 | 25 | M12 | 16 | 50 | 14 |
| ADIMZ160002 | 20 | M16 | 20 | 60 | 18 |
| ADIMZ200002 | 10 | M20 | 25 | 80 | 24 |
| ADIM6060002 | 100 | M6 | 8 | 25 | 8 |
| ADIM6080002 | 50 | M8 | 10 | 30 | 10 |
| ADIM6100002 | 50 | M10 | 12 | 40 | 12 |
| ADIM6120002 | 25 | M12 | 16 | 50 | 14 |
| ADIM6160002 | 20 | M16 | 20 | 60 | 18 |

## LIPPED / INTERNAL THREAD

| Product Code | Pack Quantity | Anchor size/ Thread size | Drill hole Ø (mm) | Anchor length/ Drill hole depth (mm) $l_t$ & $h_1$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|
| ADLMZ060002 | 100 | M6 | 8 | 25 | 8 |
| ADLMZ080002 | 50 | M8 | 10 | 30 | 10 |
| ADLMZ100002 | 50 | M10 | 12 | 40 | 12 |
| ADLMZ120002 | 25 | M12 | 16 | 50 | 14 |

## SETTING TOOL FOR ALL DROP IN ANCHORS

| Product Code | Pack Quantity | Description |
|---|---|---|
| TMADIST0602 | 1 | Setting tool to suit M6 DROP IN Anchor |
| TMADIST0802 | | Setting tool to suit M8 DROP IN Anchor |
| TMADIST0102 | | Setting tool to suit M10 DROP IN Anchor |
| TMADIST0122 | | Setting tool to suit M12 DROP IN Anchor |
| TMADIST0162 | | Setting tool to suit M16 DROP IN Anchor |
| TMADIST0202 | | Setting tool to suit M20 DROP IN Anchor |

# DROP IN ANCHOR
## INTERNAL THREAD

ZINC YELLOW  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Maximum Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edgedistance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|
| | | | | | | Tensile (kN) | Shear (kN) |
| | $h_{nom}$ | $h_{min}$ | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| M6 | 25 | 100 | 4 | 70 | 90 | 1.8 | 2.3 |
| M8 | 30 | 100 | 8 | 85 | 105 | 2.4 | 2.9 |
| M10 | 40 | 120 | 15 | 115 | 140 | 3.8 | 3.6 |
| M12 | 50 | 140 | 35 | 145 | 175 | 5.5 | 5.5 |
| M16 | 60 | 160 | 60 | 175 | 210 | 7.2 | 8.2 |
| M20 | 80 | 200 | 130 | 235 | 280 | 11.3 | 13.1 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

# VERSATILE TORQUE CONTROLLED SLEEVE ANCHOR

Bremick Sleeve Anchors have been a workhorse in the construction industry for decades, leveraging a proven, simple design and installation process to deliver great results for light to medium duty load cases in Non Safety Critical applications.

Bremick offers a range of Sleeve Anchors that include six head styles, three finishes in a range of diameters from 6.5mm to 20mm to address a wide variety of light to medium duty anchoring challenges.

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## FLANGE HEX NUT

### Features & Benefits

- Light to medium duty expansion anchor
- Comprehensive range provides reliable & economical anchoring
- Convenient through fixture fastening

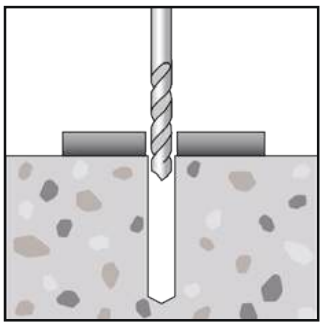
### Application / Trades

- Light to medium load applications into concrete & solid masonry
- Fixing of signs, gates, handles, grab rails
- Suspending light fixtures, pipe brackets
- Shelving unit tie down

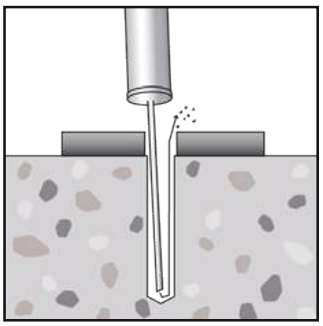
Product information conveniently stamped on sleeve

Simple, pre-assembled design

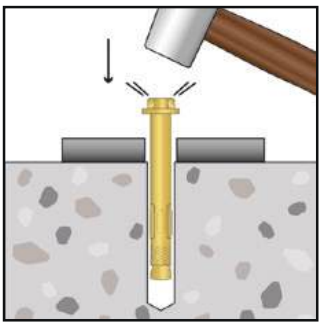
## INSTALLATION



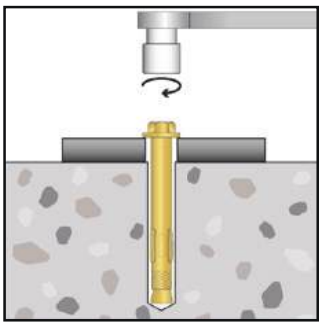
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# SLEEVE ANCHOR
# FLANGE HEX NUT

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASNMZ060252 | 100 | 6.5 | M5 | 25 | 3 | 35 | 22 | 8 |
| ASNMZ060352 | | | | 35 | 5 | 40 | 30 | |
| ASNMZ060552 | | | | 55 | 20 | 45 | 35 | |
| ASNMZ060752 | | | | 75 | 40 | 40 | 35 | |
| ASNMZ080402 | 100 | 8 | M6 | 40 | 5 | 45 | 35 | 10 |
| ASNMZ080652 | 100 | | | 65 | 25 | 50 | 40 | |
| ASNMZ080852 | 50 | | | 85 | 45 | 50 | 40 | |
| ASNMZ100402 | 50 | 10 | M8 | 40 | 5 | 45 | 35 | 12 |
| ASNMZ100502 | 50 | | | 50 | 5 | 55 | 45 | |
| ASNMZ100602 | 50 | | | 60 | 10 | 60 | 50 | |
| ASNMZ100752 | 50 | | | 75 | 25 | 60 | 50 | |
| ASNMZ101002 | 25 | | | 100 | 50 | 60 | 50 | |
| ASNMZ101252 | 25 | | | 125 | 75 | 60 | 50 | |
| ASNMZ120602 | 25 | 12 | M10 | 60 | 5 | 70 | 55 | 14 |
| ASNMZ120752 | 25 | | | 75 | 15 | 75 | 60 | |
| ASNMZ121002 | 20 | | | 100 | 40 | 75 | 60 | |
| ASNMZ121302 | 20 | | | 130 | 70 | 75 | 60 | |
| ASNMZ160652 | 20 | 16 | M12 | 65 | 5 | 75 | 60 | 18 |
| ASNMZ161102 | 10 | | | 110 | 30 | 95 | 80 | |
| ASNMZ161452 | 10 | | | 145 | 65 | 95 | 80 | |
| ASNMZ200752 | 10 | 20 | M16 | 75 | 5 | 90 | 70 | 22 |
| ASNMZ201052 | 5 | | | 105 | 15 | 110 | 90 | |
| ASNMZ201152 | 5 | | | 115 | 15 | 120 | 100 | |
| ASNMZ201502 | 5 | | | 150 | 50 | 120 | 100 | |
| ASNMZ201602 | 5 | | | 160 | 60 | 120 | 100 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# SLEEVE ANCHOR
## FLANGE HEX NUT

MECHANICAL GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASNMG060352 | 50 | 6.5 | M5 | 35 | 5 | 35 | 30 | 8 |
| ASNMG060552 | | | | 55 | 20 | 40 | 35 | |
| ASNMG080402 | 50 | 8 | M6 | 40 | 5 | 45 | 35 | 10 |
| ASNMG080652 | 100 | | | 65 | 25 | 50 | 40 | |
| ASNMG080852 | 50 | | | 85 | 45 | 50 | 40 | |
| ASNMG100402 | 50 | 10 | M8 | 40 | 5 | 45 | 35 | 12 |
| ASNMG100502 | 50 | | | 50 | 5 | 55 | 45 | |
| ASNMG100602 | 50 | | | 60 | 10 | 60 | 50 | |
| ASNMG100752 | 50 | | | 75 | 25 | 60 | 50 | |
| ASNMG101002 | 25 | | | 100 | 50 | 60 | 50 | |
| ASNMG101252 | 25 | | | 125 | 75 | 60 | 50 | |
| ASNMG120602 | 25 | 12 | M10 | 60 | 5 | 70 | 55 | 14 |
| ASNMG120752 | 25 | | | 75 | 15 | 75 | 60 | |
| ASNMG121002 | 20 | | | 100 | 40 | 75 | 60 | |
| ASNMG121302 | 20 | | | 130 | 70 | 75 | 60 | |
| ASNMG160652 | 20 | 16 | M12 | 65 | 5 | 75 | 60 | 18 |
| ASNMG161102 | 10 | | | 110 | 30 | 95 | 80 | |
| ASNMG161452 | 10 | | | 145 | 65 | 95 | 80 | |
| ASNMG200752 | 10 | 20 | M16 | 75 | 5 | 90 | 70 | 22 |
| ASNMG201052 | 5 | | | 105 | 15 | 110 | 90 | |
| ASNMG201502 | 5 | | | 150 | 50 | 120 | 100 | |
| ASNM6060402 | 100 | 6.5 | M5 | 40 | 5 | 45 | 35 | 8 |
| ASNM6060602 | | | | 60 | 25 | | | |
| ASNM6060752 | | | | 75 | 40 | | | |
| ASNM6080402 | 100 | 8 | M6 | 40 | 5 | 45 | 35 | 10 |
| ASNM6080652 | 50 | | | 65 | 25 | 50 | 40 | |
| ASNM6080852 | 50 | | | 85 | 45 | 50 | 40 | |
| ASNM6100402 | 50 | 10 | M8 | 40 | 5 | 45 | 35 | 12 |
| ASNM6100502 | 50 | | | 50 | 5 | 55 | 45 | |
| ASNM6100602 | 50 | | | 60 | 10 | 60 | 50 | |
| ASNM6100752 | 50 | | | 75 | 25 | 60 | 50 | |
| ASNM6101002 | 25 | | | 100 | 50 | 60 | 50 | |
| ASNM6120602 | 25 | 12 | M10 | 60 | 5 | 70 | 55 | 14 |
| ASNM6120752 | 25 | | | 75 | 15 | 75 | 60 | |
| ASNM6121002 | 20 | | | 100 | 40 | 75 | 60 | |
| ASNM6121302 | 25 | | | 130 | 70 | 75 | 60 | |

* For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

**Note:**

# SLEEVE ANCHOR
# FLANGE HEX NUT

ZINC YELLOW  MECHANICAL GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Tension (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6.5 | 22 | 75 | 8 | 3 | 75 | 50 | 1.0 | 1.0 |
| | 30 | | | | | | 1.9 | 1.8 |
| | 35 | | | | | | 1.9 | 1.8 |
| 8 | 35 | 75 | 10 | 6 | 90 | 60 | 2.3 | 2.3 |
| | 40 | | | | | | 2.7 | 2.5 |
| 10 | 35 | 90 | 13 | 11 | 120 | 75 | 2.0 | 2.0 |
| | 45 | | | | | | 3.4 | 3.4 |
| | 50 | | | | | | 3.4 | 4.5 |
| 12 | 55 | 105 | 15 | 22 | 165 | 90 | 4.6 | 4.6 |
| | 60 | | | | | | 4.7 | 7.2 |
| 16 | 60 | 140 | 18 | 38 | 200 | 120 | 5.3 | 5.3 |
| | 70 | | | | | | 7.1 | 7.1 |
| | 80 | | | | | | 7.3 | 10.5 |
| 20 | 70 | 175 | 24 | 95 | 225 | 150 | 6.5 | 6.5 |
| | 90 | | | | | | 9.9 | 10.4 |
| | 100 | | | | | | 9.9 | 19.4 |

**Note:** Recommended capacities are based on:

– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## COUNTERSUNK HEAD

### Features & Benefits

- Light to medium duty expansion anchor
- Convenient through fixture fastening
- Countersunk head finishes flush for a clean fixing detail

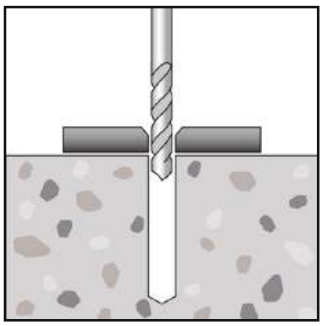
### Application / Trades

- Light to medium load applications into concrete and solid masonry
- Fixing of signs, gates, handles, grab rails
- Suspending light fixtures, pipe brackets
- Shelving unit tie down

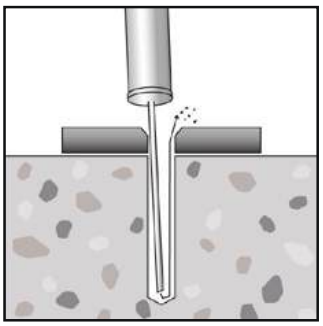
Countersunk head finishes flush for a clean fixing detail

Simple, pre-assembled design

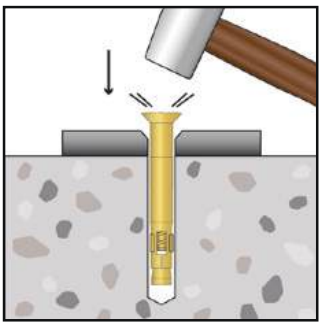
## INSTALLATION



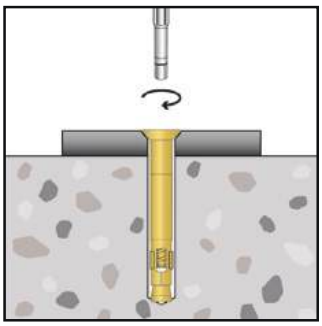
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using the correct Phillips head screwdriver, expand the anchor by tightening to the specified installation torque.

# SLEEVE ANCHOR
# COUNTERSUNK HEAD

ZINC YELLOW  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\,max}$ (mm) | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASKMZ060352 | 100 | 6.5 | M5 | 35 | 5 | 40 | 30 | 8 |
| ASKMZ060552 | | | | 55 | 20 | 45 | 35 | |
| ASKMZ060752 | | | | 75 | 40 | 45 | 35 | |
| ASKMZ061002 | | | | 100 | 65 | 45 | 35 | |
| ASKMZ080602 | 100 | 8 | M6 | 60 | 20 | 50 | 40 | 10 |
| ASKMZ080852 | 50 | | | 85 | 45 | | | |
| ASKMZ081002 | 50 | | | 100 | 60 | | | |
| ASKMZ100752 | 50 | 10 | M8 | 75 | 25 | 60 | 50 | 12 |
| ASKMZ101002 | | | | 100 | 50 | | | |
| ASKMZ101252 | | | | 125 | 75 | | | |
| ASKM6060352 | 100 | 6.5 | M5 | 35 | 5 | 40 | 30 | 8 |
| ASKM6060602 | | | | 60 | 25 | 45 | 35 | |
| ASKM6060752 | | | | 75 | 40 | 45 | 35 | |
| ASKM6061002 | | | | 100 | 65 | 45 | 35 | |
| ASKM6080602 | 100 | 8 | M6 | 60 | 20 | 50 | 40 | 10 |
| ASKM6080852 | 50 | | | 85 | 45 | | | |
| ASKM6081002 | 50 | | | 100 | 60 | | | |
| ASKM6100752 | 50 | 10 | M8 | 75 | 25 | 60 | 50 | 12 |
| ASKM6101002 | | | | 100 | 50 | | | |
| ASKM6101252 | | | | 125 | 75 | | | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# SLEEVE ANCHOR
# COUNTERSUNK HEAD

ZINC YELLOW  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Tension (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6.5 | 22 | 75 | PH3 | 3 | 75 | 50 | 1.0 | 1.0 |
| | 30 | | | | | | 1.9 | 1.8 |
| | 35 | | | | | | 1.9 | 1.8 |
| 8 | 35 | 75 | PH3 | 6 | 90 | 60 | 2.3 | 2.3 |
| | 40 | | | | | | 2.7 | 2.5 |
| 10 | 35 | 90 | PH4 | 11 | 120 | 75 | 2.0 | 2.0 |
| | 45 | | | | | | 3.4 | 3.4 |
| | 50 | | | | | | 3.4 | 4.5 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## FLUSH HEAD

### Features & Benefits

- Light to medium duty expansion anchor
- Convenient through fixture fastening
- The low profile Hex head makes it ideal for use where a projecting stud may present a tripping hazard

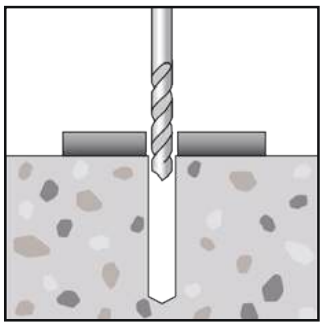
### Application / Trades

- Light to medium load applications into concrete and solid masonry
- Fixing of signs, gates, handles, grab rails
- Suspending light fixtures, pipe brackets
- Shelving unit tie down

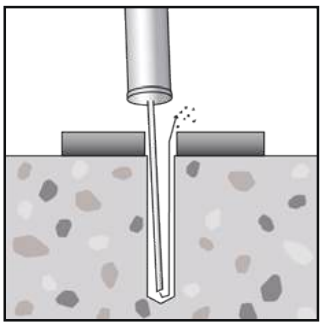
Product information conveniently stamped on sleeve

Simple, pre-assembled design

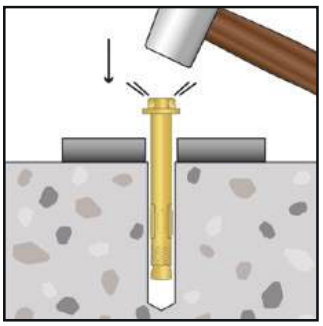
## INSTALLATION



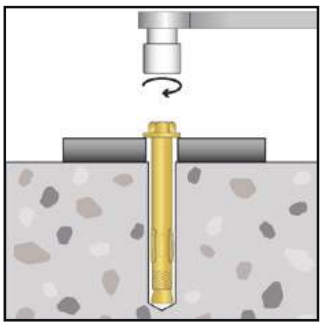
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

# SLEEVE ANCHOR
## FLUSH HEAD

ZINC YELLOW  MECHANICAL GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASFMZ080452 | 50 | 8 | M6 | 45 | 5 | 50 | 40 | 10 |
| ASFMZ080702 | | | | 70 | 30 | | | |
| ASFMZ080902 | | | | 90 | 50 | | | |
| ASFMZ100452 | 50 | 10 | M8 | 45 | 5 | 50 | 40 | 12 |
| ASFMZ100552 | | | | 55 | 5 | 60 | 50 | |
| ASFMZ100652 | | | | 65 | 15 | 60 | 50 | |
| ASFMZ100802 | | | | 80 | 30 | 60 | 50 | |
| ASFMZ101002 | | | | 100 | 50 | 60 | 50 | |
| ASFMZ120652 | 50 | 12 | M10 | 65 | 5 | 75 | 60 | 14 |
| ASFMZ120802 | 25 | | | 80 | 20 | | | |
| ASFMZ121002 | 25 | | | 100 | 40 | | | |
| ASFMZ160752 | 20 | 16 | M12 | 75 | 5 | 85 | 70 | 18 |
| ASFMZ161102 | | | | 110 | 30 | 95 | 80 | |
| ASFMG100552 | 50 | 10 | M8 | 55 | 5 | 60 | 50 | 12 |
| ASFMG100802 | | | | 80 | 30 | | | |
| ASFMG101002 | | | | 100 | 50 | | | |
| ASFMG120652 | 50 | 12 | M10 | 65 | 5 | 75 | 60 | 14 |
| ASFMG160752 | 20 | 16 | M12 | 75 | 5 | 85 | 70 | 18 |
| ASFM6080452 | 50 | 8 | M6 | 45 | 5 | 50 | 40 | 10 |
| ASFM6080702 | | | | 70 | 30 | | | |
| ASFM6080902 | | | | 90 | 50 | | | |
| ASFM6100402 | 50 | 10 | M8 | 40 | 5 | 45 | 35 | 12 |
| ASFM6100602 | | | | 60 | 10 | 60 | 50 | |
| ASFM6100802 | | | | 80 | 30 | 60 | 50 | |
| ASFM6101002 | | | | 100 | 50 | 60 | 50 | |
| ASFM6120752 | 25 | 12 | M10 | 75 | 15 | 75 | 60 | 14 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# SLEEVE ANCHOR
# FLUSH HEAD

ZINC YELLOW  MECHANICAL GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Socket size AF (mm) | Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Tension (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 8 | 35 | 75 | 10 | 6 | 90 | 60 | 2.3 | 2.3 |
| | 40 | | | | | | 2.7 | 2.5 |
| 10 | 35 | 90 | 13 | 11 | 120 | 75 | 2.0 | 2.0 |
| | 45 | | | | | | 3.4 | 3.4 |
| | 50 | | | | | | 3.4 | 4.5 |
| 12 | 55 | 105 | 17 | 22 | 165 | 90 | 4.6 | 4.6 |
| | 60 | | | | | | 4.7 | 7.2 |
| 16 | 60 | 140 | 19 | 38 | 200 | 120 | 5.3 | 5.3 |
| | 70 | | | | | | 7.1 | 7.1 |
| | 80 | | | | | | 7.3 | 10.5 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## ROUND HEAD

ZINC YELLOW

### Features & Benefits

- Light duty expansion anchor
- Convenient through fixture fastening
- Round head provides a neat, low profile finish

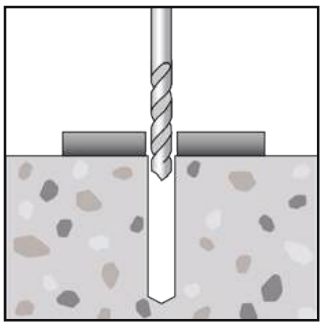
### Application / Trades

- Light duty brackets and signage

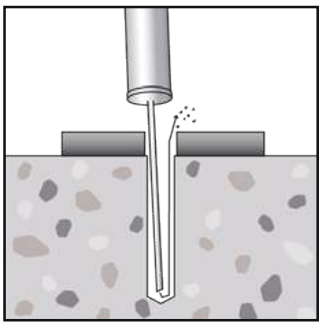
Round head provides a neat, low profile finish

Simple, pre-assembled design

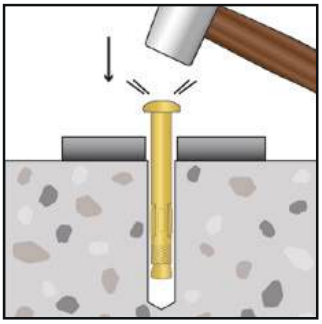
## INSTALLATION



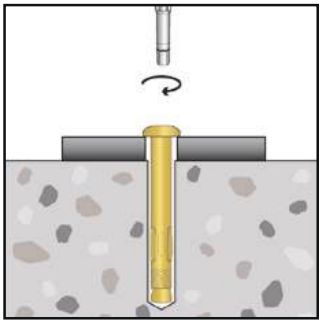
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using the correct Phillips head screwdriver, expand the anchor by tightening to the specified installation torque.

# SLEEVE ANCHOR
# ROUND HEAD

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ASRMZ060352 | 100 | 6.5 | M5 | 35 | 3 | 45 | 32 | 8 |
| ASRMZ060502 | | | | 50 | 15 | | 35 | |
| ASRMZ060752 | | | | 75 | 40 | | 35 | |
| ASRMZ060952 | | | | 95 | 60 | | 35 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Philips Head size | Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Tension (kN) | Shear (kN) |
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | SW | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6.5 | 22 | 75 | PH3 | 3 | 75 | 50 | 1.0 | 1.0 |
| | 30 | | | | | | 1.9 | 1.8 |
| | 35 | | | | | | 1.9 | 1.8 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with ( $N_{app}$ / $N_{rec}$ ) + ( $V_{app}$ / $V_{rec}$ ) ≤ 1.2.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## EYE & HOOK BOLT

ZINC YELLOW

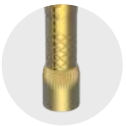
### Features & Benefits

- Economical zinc plated finish for dry, internal application
- Eye bolt offers a wider range of load direction & option to require a tool for fixture removal
- Hook bolt allows easy fixture removal and replacement, ideal for temporary works

### Application / Trades

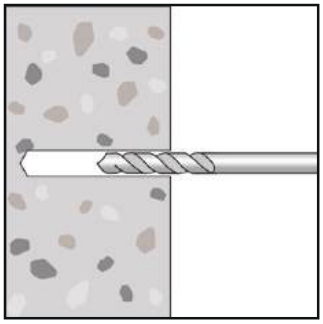
- Light duty applications in concrete & solid masonry
- Suspension of light fittings, signage & potted plants
- 50kg capacity - do not use for suspension of seats, chairs or swings

Versatile hook or eye option to suit your application

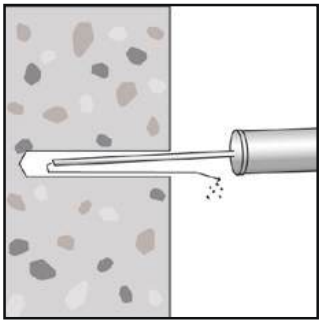


Dependable design ensures reliable performance

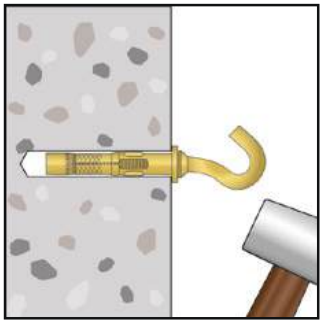
## INSTALLATION



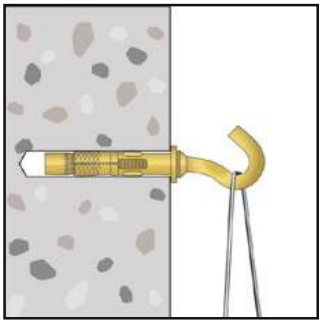
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Tap anchor into the hole until its collar contacts the substrate surface. Use a suitable sized spanner to turn the hook / eye until clamped.



Ensure hook / eye is oriented correctly per the loading diagrams shown below the Range table.

# SLEEVE ANCHOR
# EYE & HOOK BOLT

ZINC YELLOW

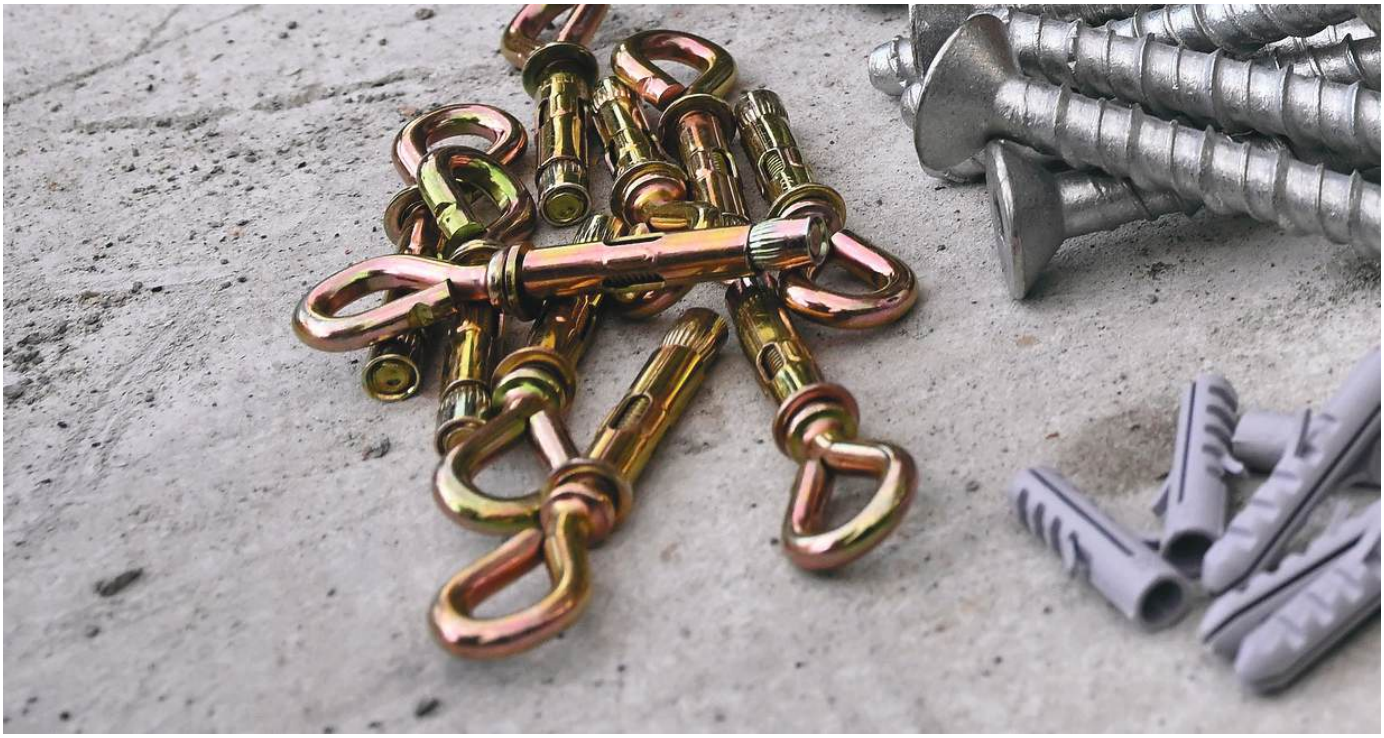
## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) $l_t$ | Minimum substrate thickness (mm) $h_{min}$ | Drill hole depth (mm) $h_1$ | Minimum embedment depth (mm) $h_{nom}$ | Capacity in direction shown (kN) $F_{rec}$ |
|---|---|---|---|---|---|---|---|---|
| **EYE BOLT** | | | | | | | | |
| AEBMZ080452 | 100 | 8 | M6 | 45 | 90 | 50 | 45 | 0.5 |
| **HOOK BOLT** | | | | | | | | |
| AHBMZ080452 | 100 | 8 | M6 | 45 | 90 | 50 | 45 | 0.5 |

**Note:** Internal diameter of eye is 9mm.
Recommended capacities are based on:
– Single anchor.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).

**Important Disclaimer:** Capacity information on page 208 applies.

Capacity in direction shown



NON SAFETY CRITICAL

# SLEEVE ANCHOR
## SUSPENSION HEAD

ZINC YELLOW

### Features & Benefits

- Economical zinc plated finish for dry, internal applications
- Supplied fully assembled, ready to install
- Shallow hole depths result in speedy installation

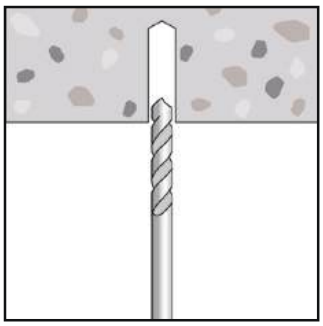
### Application / Trades

- Light duty applications
- Suspended ceiling supports
- Cable / cable tie anchorage

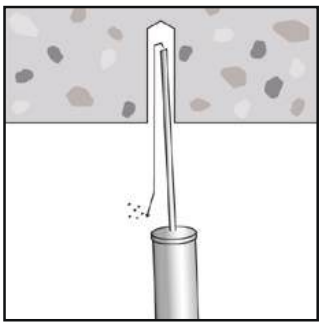
Eyelet creates an anchor point for tie wire

Pre-assembled for fast and easy installation

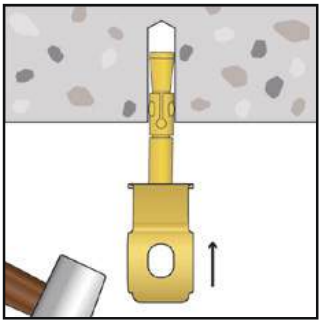
### INSTALLATION



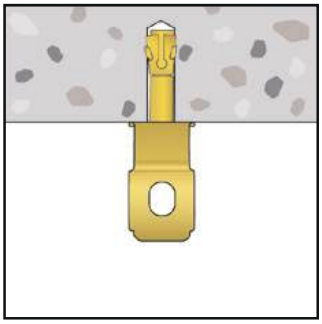
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until the suspension head is flush with the material surface.



Using a wrench tighthen to set the anchor.

# SLEEVE ANCHOR
# SUSPENSION HEAD

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor/ Drill hole Ø (mm) | Thread size | Anchor length (mm) $l_t$ | Minimum substrate thickness (mm) $h_{min}$ | Drill hole depth (mm) $h_1$ | Minimum embedment depth (mm) $h_{nom}$ | Capacity in direction shown (kN) $F_{rec}$ |
|---|---|---|---|---|---|---|---|---|
| ASUMZ060252 | 100 | 6.5 | M5 | 25 | 75 | 30 | 25 | 0.5 |
| ASUMZ060352 | | | | 35 | | 40 | 35 | |

**Note:** Recommended capacities are based on:
– Single anchor.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).

**Important Disclaimer:** Capacity information on page 208 applies.

Capacity in direction shown

NON SAFETY CRITICAL

# SLEEVE ANCHOR
## POST HEAD

### Features & Benefits

- Various head styles & finishes to adapt to your application
- Use in conjunction with same diameter Bremick Sleeve Anchor
- Economical zinc plated finish for dry, internal applications
- 316 stainless steel option is ideal for marine & external applications

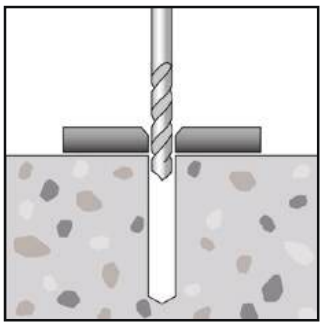
### Application / Trades

- Light to medium duty applications
- Retrofitting nut & projecting stud fixings to improve public space safety

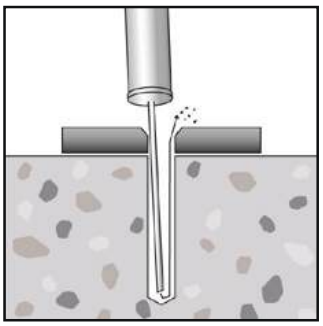
Round head for a low profile finish

Stainless Steel 316 option for marine and external applications

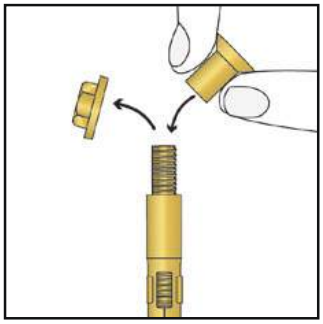
## INSTALLATION



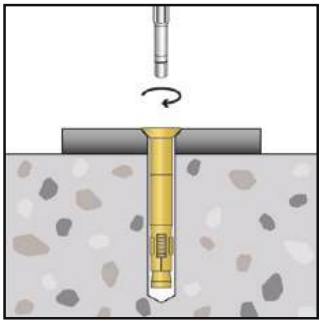
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Remove existing head then thread on the desired post head.



Install the refreshed anchor according to its' installation instruction.

# SLEEVE ANCHOR
# POST HEAD

ZINC PLATED  STAINLESS STEEL 316  ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Thread Size | Phillips driver bit |
|---|---|---|---|---|
| **COUNTERSUNK HEAD** | | | | |
| APHKZ060052 | 100 | 6.5 | M5 | #3 |
| APHKZ080062 | 100 | 8 | M6 | #3 |
| APHKZ100082 | 100 | 10 | M8 | #4 |
| APHK6060052 | 100 | 6.5 | M5 | #3 |
| APHK6080062 | 100 | 8 | M6 | #3 |
| APHK6100082 | 100 | 10 | M8 | #4 |
| **ROUND HEAD** | | | | |
| APHRZ060052 | 100 | 6.5 | M5 | #3 |

**Note:** Refer to the base anchor for capacity information.

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Thread Size | Capacity in direction shown (kN) $F_{rec}$ |
|---|---|---|---|---|
| **TIE WIRE** | | | | |
| APHKZ060052 | 100 | 6.5 | M5 | 0.5 |
| APHKZ080062 | 100 | 8 | M6 | 0.6 |

**Note:** Recommended capacity is based on:
– Single anchor
– Capacity is limited by tie wire post head steel tensile strength
– Characteristic ultimate steel capacity / 2.5

NON SAFETY CRITICAL

# MASONRY SCREW

B8® COATING

## Features & Benefits

- Light duty fixing into concrete and solid and hollow masonry
- Convenient through fixture fastening
- Hi-Lo thread reduces installation torque

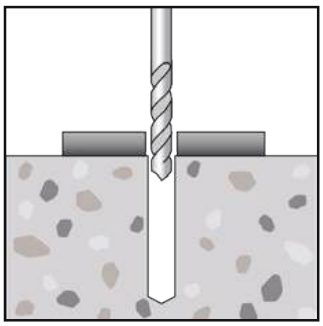
## Application / Trades

- Partitions and framing
- Windows and door frames
- Battens and timber sections
- Electrical, ducting and building services
- Pipe & cable clamps

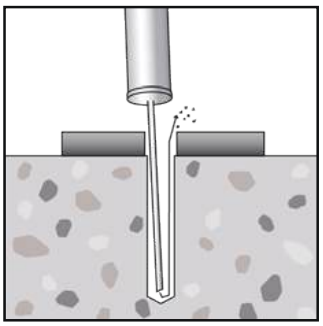
Deep drive recess for postive bit engagement

Sharks tooth thread reduces installation torque

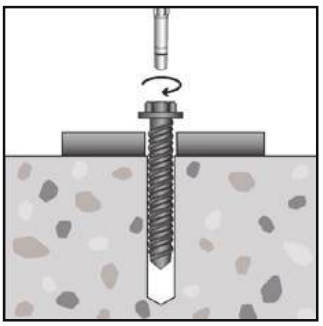
## INSTALLATION



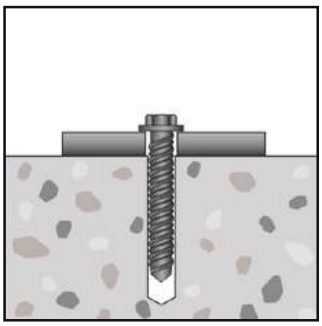
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



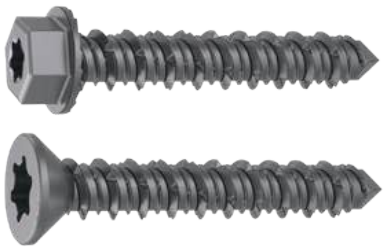
Insert anchor into hole and screw in using a hand or power tool to drive socket / Torx driver bit. Apply constant forward pressure until fixture has clamped.



Once the fixture has clamped, installation is complete.

# MASONRY SCREW

B8 COATING



## RANGE

| Product Code | Pack Quantity | Pre-drill hole Ø (mm) | Anchor length x thread diameter (mm) | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Drill hole depth @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum substrate thickness (mm) $h_{min}$ | Torx Driver bit | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| **FLANGE HEX HEAD** | | | | | | | | |
| SPHSTH8100302T | 100 | 4 | 30 x 5 | 5 | 35 | 75 | T20 or 1/4" Hex socket | 6 |
| SPHSTH8100452T | | | 45 x 5 | 10 | 45 | | | |
| SPHSTH8140302T | 50 | 5 | 30 x 6.5 | 5 | 35 | 75 | T25 or 5/16" Hex socket | 8 |
| SPHSTH8140452T | | | 45 x 6.5 | 10 | 45 | 75 | | |
| SPHSTH8140602T | | | 60 x 6.5 | 25 | 45 | 75 | | |
| SPHSTH8140802T | | | 80 x 6.5 | 40 | 50 | 100 | | |
| **COUNTERSUNK HEAD** | | | | | | | | |
| SPCSTH8100302T | 100 | 4 | 30 x 5 | 5 | 35 | 75 | T25 | 6 |
| SPCSTH8100452T | | | 45 x 5 | 10 | 45 | | | |
| SPCSTH8140452T | 50 | 5 | 45 x 6.5 | 10 | 45 | 75 | T30 | 8 |
| SPCSTH8140602T | | | 60 x 6.5 | 25 | 45 | 75 | | |
| SPCSTH8140802T | | | 80 x 6.5 | 40 | 50 | 100 | | |

**Note:** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix}$,max value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

NON SAFETY CRITICAL

# FIXCONN SCREW
## WASHER HEAD


B8® COATING

### Features & Benefits

- Light duty fixing into concrete and solid and hollow masonry
- Convenient through fixture fastening
- Large washer head for improved fixture clamping

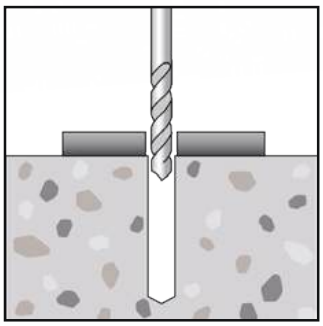
### Application / Trades

- Partitions and framing
- Windows and door frames
- Battens and timber sections
- Electrical, ducting and building services

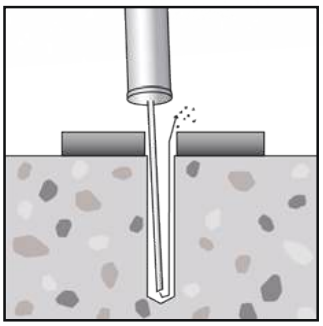
Large washer head for superior clamping force

Hardened carbon steel for additional strength

## INSTALLATION



Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

Insert anchor through fixture into the drilled hole. Drive using a Torx T40 driver bit whilst applying constant forward pressure until fixture is clamped.

# FIXCONN SCREW
# WASHER HEAD

B8 COATING

## RANGE

| Product Code | Pack Quantity | Pre-drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth @ $t_{fix,\ max}$ (mm) | Minimum substrate thickness (mm) | Torx Driver bit | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | | $d_f$ |
| SNWSTC8160652T | 100 | 6 | 65 | 5 | 70 | 100 | T40 | 9 |
| SNWSTC8160852T | | | 85 | 25 | | | | |
| SNWSTC8161052T | | | 105 | 45 | | | | |

**Note:** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix}$,max value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix}$,$_{max}$ - $t_{fix}$ actual).

NON SAFETY CRITICAL

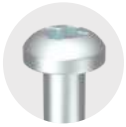
# WALL GRAB SCREW
## PAN HEAD

### Features & Benefits

- Light duty fixing into concrete and solid and hollow masonry
- Convenient through fixture fastening
- Pan head for a low profile finish

### Application / Trades

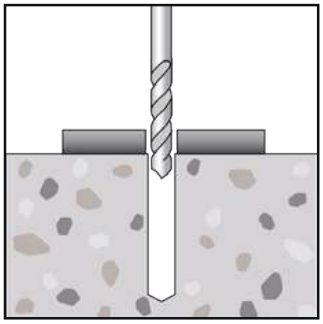
- Electrical boxes and fittings
- Window framing
- Pipe and cable clamps
- Metal battens
- Brackets, connectors



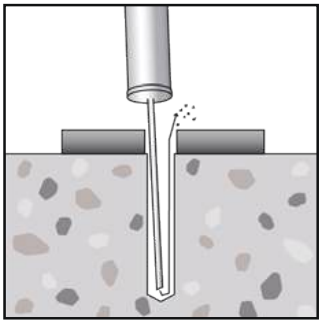
Pan head for a decorative appearance and increased clamping force

Unique Hi Lo thread installs into multiple materials including masonry and timber

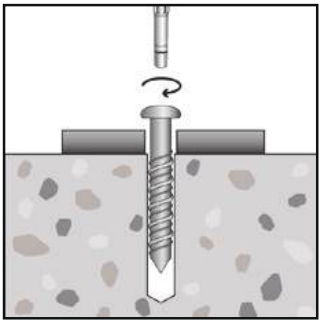
## INSTALLATION



Drill hole through fixture into substrate to the specified diameter and depth.



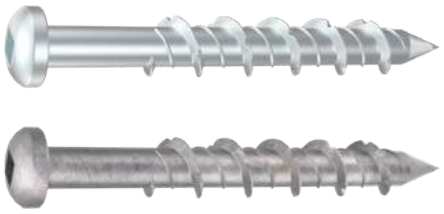
Clear hole of drilling debris.



Insert anchor through fixture into the drilled hole. Drive using the nominated driver bit whilst applying constant forward pressure until fixture is clamped.

# WALL GRAB SCREW
## PAN HEAD

ZINC PLATED  MECHANICAL GALVANISED



## RANGE

| Product Code | Pack Quantity | Pre-drill hole Ø (mm) | Anchor length x thread diameter (mm) | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Drill hole depth @ $t_{fix,\ max}$ (mm) $h_1$ | Minimum substrate thickness (mm) $h_{min}$ | Driver bit size | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|---|
| AWGQZ320002 | 100 | 5 | 32 x 6.5 | 5 | 35 | 75 | Square #2 | 8 |
| AWGQZ500002 | | | 50 x 6.5 | 10 | 40 | | Square #2 | |
| AWGXZ320002 | | | 32 x 6.5 | 5 | 45 | | Phillips #2 | |
| AWGQG320002 | 100 | 5 | 32 x 6.5 | 5 | 35 | 75 | Square #2 | 8 |
| AWGQG500002 | | | 50 x 6.5 | 10 | 40 | | Square #2 | |
| AWGXG320002 | | | 32 x 6.5 | 5 | 45 | | Phillips #2 | |

**Note:** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix}$,max value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix}$,$_{max}$ – $t_{fix}$ actual).

NON SAFETY CRITICAL

# THREADED ROD HANGER

## TIMBER FIXING

ZINC PLATED

### Features & Benefits

- Suitable for M10 threaded rod
- Vertical or side mount options available
- Fast to install

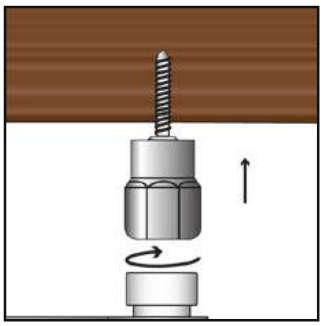
### Application / Trades

- Suspending threaded rod
- Suspending conduit
- HVAC ductwork and strut channels
- AC ducting
- Hanging pipe
- Cable tray applications

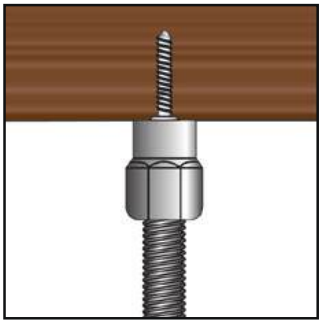
Available for vertical and side suspended applications

Sharp point for self-drilling performance into timber

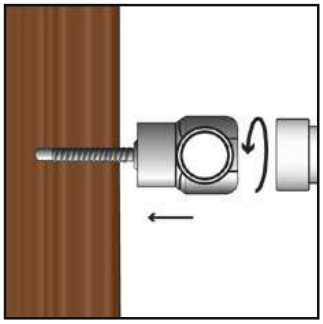
### INSTALLATION



Attach the correct sized socket driver to the hanger and drive until the anchor is securely fastened, take care not to overdrive.



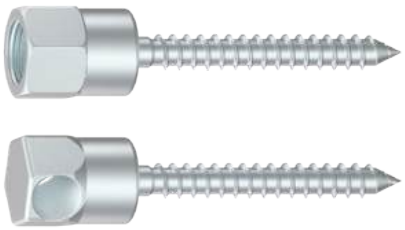
Ensure the underside of the anchor is flush with the base material. For hard timber drill a 4mm pilot hole.



Ensure the threaded rod is fully threaded through the fastener. Secure rod with M10 nut(s) for additional security.

# THREADED ROD HANGER
## TIMBER FIXING

ZINC PLATED



## RANGE

| Product Code | Pack Quantity | Version | Socket Size AF (mm) SW | To suit threaded rod | Embedment Depth (mm) |
|---|---|---|---|---|---|
| AVHTZ060252 | 100 | Vertical | 16 | M10 | 25 |
| AVHTZ060502 | | | | | 50 |
| ASHTZ060502 | | Side | | | 50 |

NON SAFETY CRITICAL

# THREADED ROD HANGER

## METAL FIXING

### Features & Benefits

- Suitable for M10 threaded rod
- Vertical or side mount options available
- Fast to install
- Self drills into metal sections

### Application / Trades

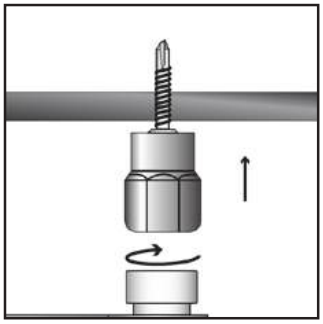
- Suspending threaded rod
- Suspending conduit
- HVAC ductwork and strut channels
- AC ducting
- Hanging pipe
- Cable tray applications

ZINC PLATED

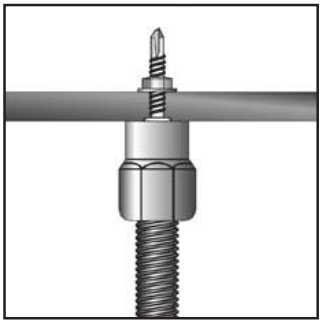
Available for Vertical and Side suspended applications

Hardened drill point for self-drilling into metal

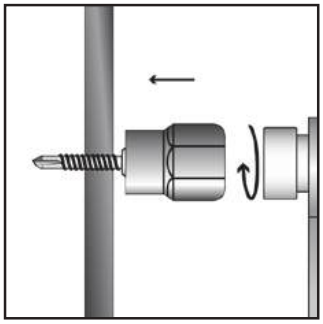
## INSTALLATION



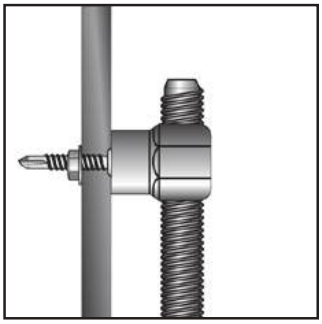
Attach the correct sized socket driver to the hanger and drive until the anchor is securely fastened, take care not to overdrive.



Secure the hanger by fitting the supplied nut.



For additional connection strength thread nut supplied onto the hanger from behind the metal substrate.



Ensure the threaded rod is fully threaded through the fastener. Secure rod with M10 nut(s) for additional security.

# THREADED ROD HANGER
## METAL FIXING

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Version | Socket Size AF (mm) SW | To suit threaded rod | Steel Thickness (mm) |
|---|---|---|---|---|---|
| ASHSZ060251 | 100 | Side | 16 | M10 | 1 – 3mm |
| AVHSZ060251 | | Vertical | | | |

NON SAFETY CRITICAL

# THREADED ROD HANGER

## CONCRETE FIXING

### Features & Benefits

- Suitable for M10 threaded rod
- Vertical mount
- Fast to install

### Application / Trades

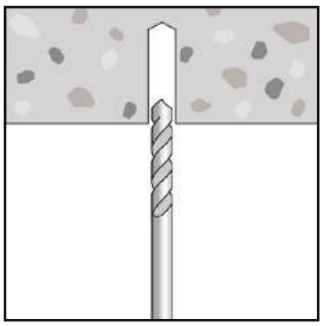
- Suspending threaded rod
- Suspending conduit
- HVAC ductwork and strut channels
- AC ducting
- Hanging pipe
- Fire protection
- Cable tray applications

ZINC PLATED

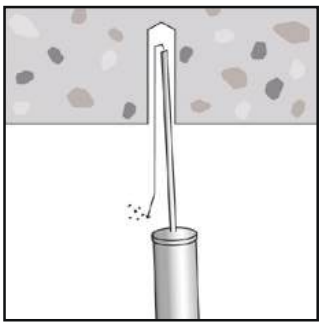
Hex shaped head for easy installation

Hi Lo thread, reduces torque during installation.

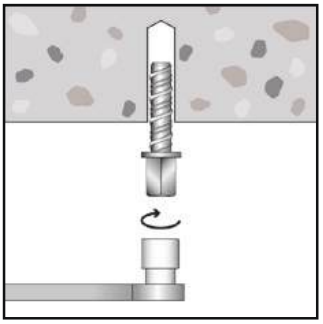
### INSTALLATION



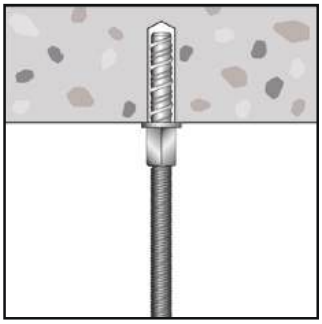
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving. Ensure the underside of the anchor is flush with the base material.



When attaching threaded rod to the hanger ensure its fully threaded into the anchor. Secure rod with M10 nut for additional security.

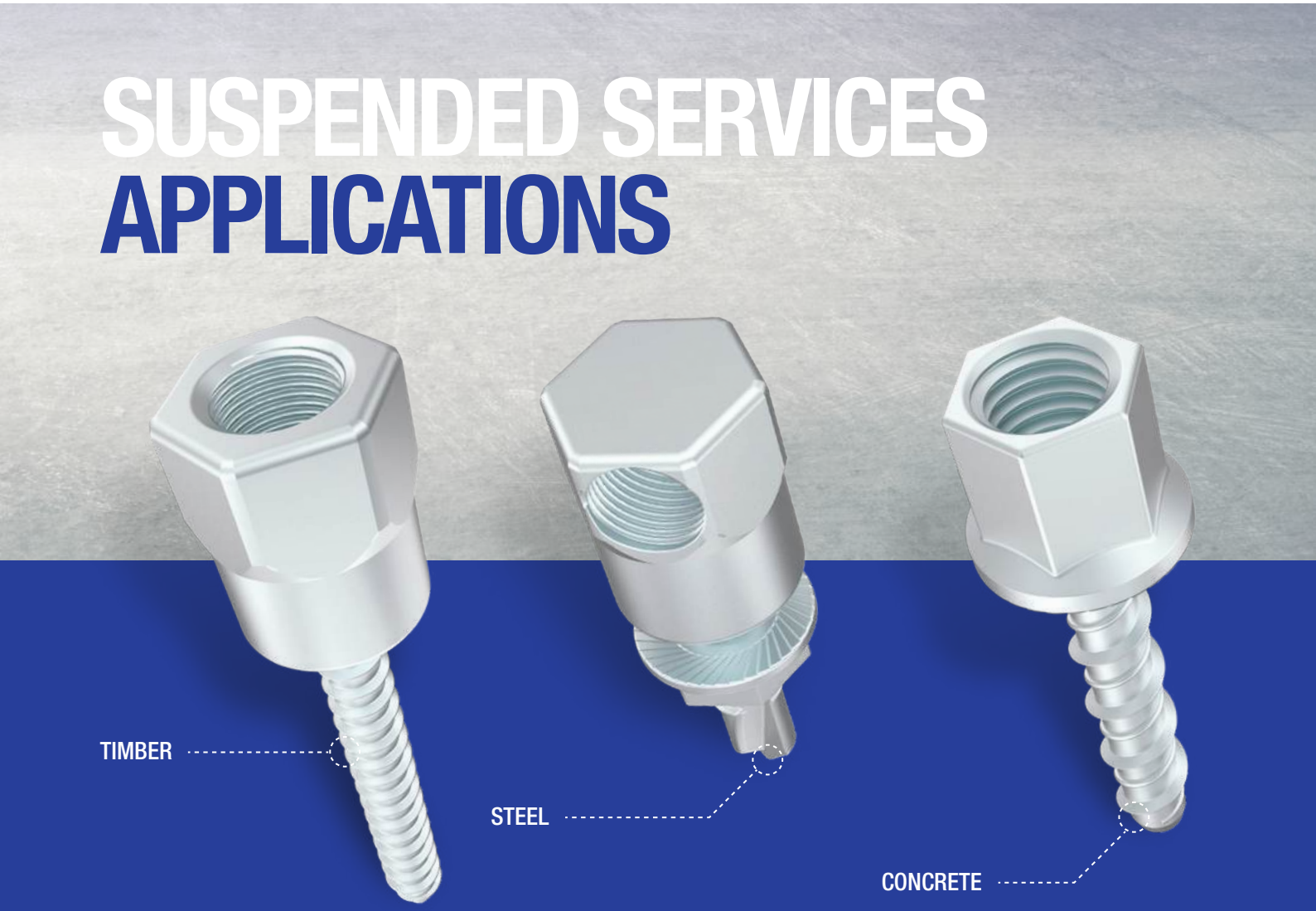
# THREADED ROD HANGER
## CONCRETE FIXING

ZINC PLATED

### RANGE

| Product Code | Pack Quantity | Version | Drill hole Ø (mm) $d_0$ | Socket Size AF (mm) SW | To suit threaded rod | Embedment Depth (mm) |
|---|---|---|---|---|---|---|
| AVHCZ060382 | 100 | Vertical | 6 | 13 | M10 | 38mm |

# SUSPENDED SERVICES APPLICATIONS




If a key part of your day to day is dropping M10 threaded rod for suspended services, the Bremick Threaded Rod Hanger range will greatly simplify your workflow. Attaching to timber or steel from overhead or the side, or overhead to concrete soffit – we have you covered with a concise range of six rod hangers. Installs are simple too – requiring just a 16mm socket for timber and steel and a 13mm socket for concrete.

NON SAFETY CRITICAL

# S DRIVE ANCHOR

## Features & Benefits

- Light duty displacement setting anchor
- Simple and robust one piece design
- Simply hammer into pre – drilled hole to install
- Cannot be easily removed once installed

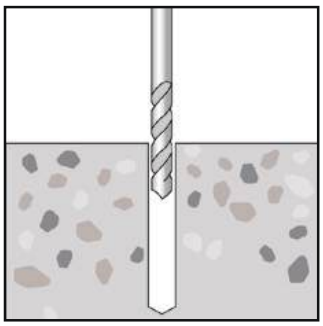
## Application / Trades

- Floor battens
- Public infrastructure where tamper resistance is desired
- Through fastening applications only
- The Formwork head is ideal for temporary fixing of timber shutters and is removable post concrete pour using a claw hammer

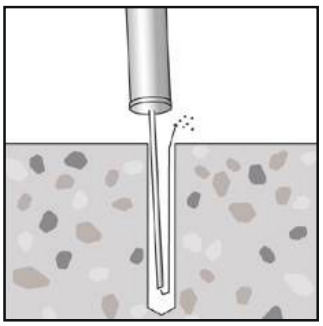
Various head styles to suit your application

Manufactured from hardened carbon steel for superior strength

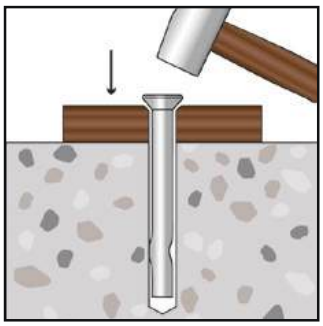
## INSTALLATION



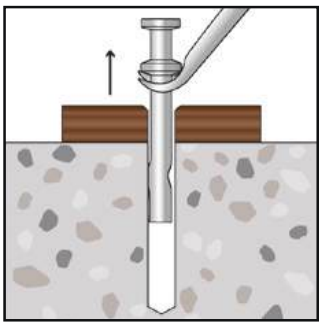
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Place fixture then drive anchor through fixture into drilled hole using a hammer until fixture is firmly clamped.



For formwork applications, a pry bar can be used to remove the anchor once the concrete has set.

# S DRIVE ANCHOR

MECHANICAL GALVANISED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) $l_t$ | Anchor diameter / drill hole (mm) $d_0$ | Drill hole depth* @ $t_{fix,\,max}$ (mm) $h_1$ | Maximum fixture thickness* (mm) $t_{fix,\,max}$ | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) $h_{nom}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|
| **COUNTERSUNK HEAD** | | | | | | | |
| ASTCG050652 | 100 | 65 | 5 | 42 | 33 | 32 | 6 |
| ASTCG050752 | | 75 | | | 43 | | |
| ASTCG051002 | | 100 | | | 68 | | |
| ASTCG060382 | 100 | 38 | 6.5 | 42 | 6 | 32 | 8 |
| ASTCG060502 | | 50 | | | 18 | | |
| ASTCG060652 | | 65 | | | 33 | | |
| ASTCG060752 | | 75 | | | 43 | | |
| ASTCG061002 | | 100 | | | 68 | | |
| **MUSHROOM HEAD** | | | | | | | |
| ASTMG050252 | 100 | 25 | 5 | 32 | 3 | 22 | 6 |
| ASTMG050322 | | 32 | | 35 | 7 | 25 | |
| ASTMG050382 | | 38 | | 42 | 6 | 32 | |
| ASTMG050502 | | 50 | | 42 | 18 | 32 | |
| ASTMG060382 | 100 | 38 | 6.5 | 42 | 6 | 32 | 8 |
| ASTMG060502 | | 50 | | | 18 | | |
| ASTMG060652 | | 65 | | | 33 | | |
| ASTMG060752 | | 75 | | | 43 | | |
| ASTMG061022 | | 102 | | | 70 | | |
| ASTM6050252 | 100 | 25 | 5 | 32 | 3 | 22 | 6 |
| ASTM6050322 | | 32 | | 35 | 7 | 25 | |
| ASTM6050382 | | 38 | | 42 | 6 | 32 | |
| ASTM6050502 | | 50 | | 42 | 18 | 32 | |
| ASTM6060382 | 100 | 38 | 6.5 | 42 | 6 | 32 | 8 |
| ASTM6060502 | | 50 | | | 18 | | |
| **FORMWORK HEAD** | | | | | | | |
| ASTFG050502 | 100 | 50 | 5 | 42 | 18 | 32 | 6 |
| ASTFG050632 | | 63 | | | 31 | | |
| ASTFG060632 | 100 | 63 | 6.5 | 42 | 31 | 32 | 8 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & substrate thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# S DRIVE ANCHOR

MECHANICAL GALVANISED  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor diameter / drill hole diameter (mm) | Minimum embedment depth @ $t_{fix,\ max}$ (mm) | Minimum substrate thickness (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|
| | | | | | Tensile (kN) | Shear (kN) |
| $d_0$ | $h_{nom}$ | $h_{min}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 5 | 22 | 75 | 60 | 60 | 0.8 | 1.4 |
| | 25 | | | | 1.0 | 2.0 |
| | 32 | | | | 1.2 | 2.6 |
| 6.5 | 32 | 75 | 80 | 80 | 1.4 | 2.8 |

**Note:** Recommended capacities are based on:

– Single anchor.

– Critical anchor spacing and edge distance values being met.

– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).

– Shear load directed away from concrete edge.

– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

# TAMPER RESISTANT HAMMER INSTALL PERMANENT FIXTURES

Bremick S Drive Anchors are ideal for tamper resistant installations, such as fittings in public access spaces. Whether that's signage in a mall or sanitary fixtures in a public restroom, the S drive anchor will endure.

The Stainless Steel mushorom head option is ideal for harsh external conditions including those where routine chemical wash down may occur.

NON SAFETY CRITICAL

# S DRIVE ANCHOR
## TIE WIRE

ZINC PLATED

### Features & Benefits

- Light duty displacement setting anchor
- Simple and robust one piece design
- Simply hammer into pre – drilled hole to install
- Cannot be easily removed once installed

### Application / Trades

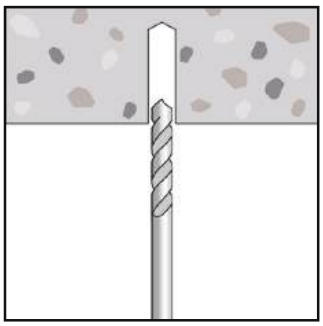
Suspension of:

- Ceiling grid
- Overhead lightweight signage
- Electrical cable tie / catenary wire

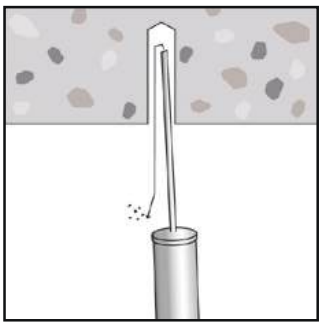
Robust one piece design for simple and speedy installation

Manufactured from hardened carbon steel for superior strength

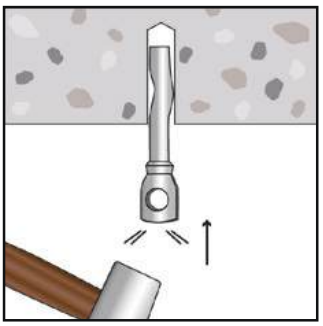
### INSTALLATION



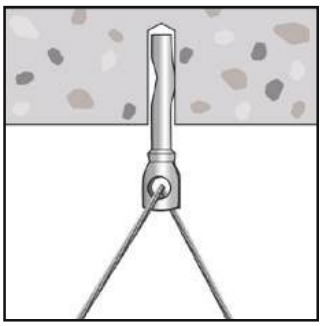
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Drive anchor into drilled hole to the required embedment depth.



Affix cable/wire through the anchor eyelet and secure.

# S DRIVE ANCHOR
# TIE WIRE

ZINC PLATED

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) | Anchor diameter / drill hole (mm) | Drill hole depth (mm) | Minimum embedment depth (mm) |
|---|---|---|---|---|---|
| | | $l_t$ | $d_0$ | $h_1$ | $h_{nom}$ |
| ASTTZ050302 | 100 | 30 | 5 | 40 | 30 |
| ASTTZ060252 | 100 | 25 | 6.5 | 35 | 25 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor diameter / drill hole diameter (mm) | Minimum embedment depth @ $t_{fix,\ max}$ (mm) | Minimum substrate thickness (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacity Load in direction shown (kN) |
|---|---|---|---|---|---|
| $d_0$ | $h_{nom}$ | $h_{min}$ | $s_{cr}$ | $c_{cr}$ | $F_{rec}$ |
| 5 | 30 | 75 | 60 | 60 | 1.0 |
| 6.5 | 25 | 75 | 80 | 80 | 1.2 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values being met.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

Capacity in direction shown

NON SAFETY CRITICAL

# SPLIT DRIVE ANCHOR
## COUNTERSUNK HEAD

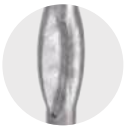
### Features & Benefits

- Light duty displacement setting anchor
- Simple and robust one piece design
- Simply hammer into pre – drilled hole to install
- Cannot be easily removed once installed

### Application / Trades

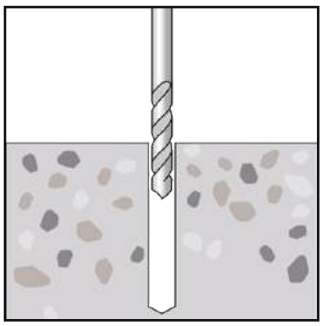
- Floor battens
- Public infrastructure where tamper resistance is desired
- Through fastening applications only

Tamper proof and permanent fixing.

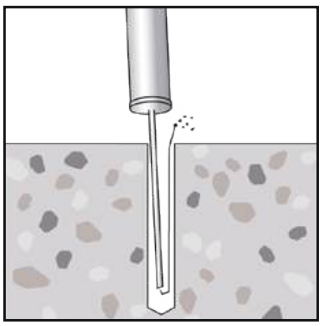


Manufactured from hardened carbon steel for superior strength

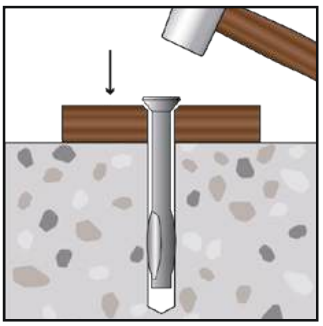
## INSTALLATION



Drill hole into substrate to the specified depth



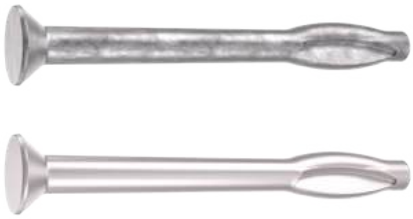
Clear hole of drilling debris.



Place fixture then drive anchor through fixture into drilled hole using a hammer until fixture is firmly clamped.

# SPLIT DRIVE ANCHOR
# COUNTERSUNK HEAD

MECHANICAL GALVANISED  STAINLESS STEEL 316



## RANGE

| Product Code | Pack Quantity | Anchor length (mm) | Anchor diameter / drill hole (mm) | Drill hole depth* @ $t_{fix,\,max}$ (mm) | Maximum fixture thickness* (mm) | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | $l_t$ | $d_0$ | $h_1$ | $t_{fix,\,max}$ | $h_{nom}$ | $d_f$ |
| ASDKG051002 | 100 | 100 | 5 | 50 | 60 | 40 | 7 |
| ASDKG060382 | 100 | 38 | 6 | 42 | 6 | 32 | 8 |
| ASDKG060502 | | 50 | | 50 | 10 | 40 | |
| ASDKG060652 | | 65 | | 50 | 25 | 40 | |
| ASDKG060752 | | 75 | | 50 | 35 | 40 | |
| ASDKG061002 | | 100 | | 50 | 60 | 40 | |
| ASDK6060502 | 100 | 50 | 6 | 50 | 10 | 40 | 8 |
| ASDK6060652 | | 65 | | | 25 | | |
| ASDK6060752 | | 75 | | | 35 | | |
| ASDK6061002 | | 100 | | | 60 | | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor diameter / drill hole diameter (mm) | Minimum embedment depth @ $t_{fix,\,max}$ (mm) | Minimum substrate thickness (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|
| | | | | | Tensile (kN) | Shear (kN) |
| $d_0$ | $h_{nom}$ | $h_{min}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 5 | 40 | 100 | 60 | 65 | 0.7 | 0.8 |
| 6 | 32 | 100 | 65 | 75 | 1.0 | 1.4 |
| | 40 | | | | | |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SPLIT DRIVE ANCHOR
## MUSHROOM HEAD

MECHANICAL GALVANISED

### Features & Benefits

- Light duty displacement setting anchor
- Simple and robust one piece design
- Simply hammer into pre – drilled hole to install
- Cannot be easily removed once installed

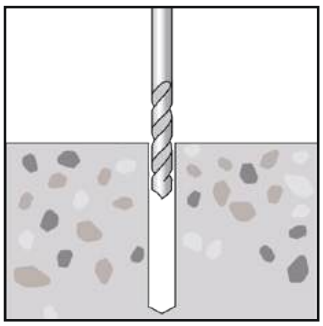
### Application / Trades

- Floor battens
- Public infrastructure where tamper resistance is desired
- Through fastening applications only

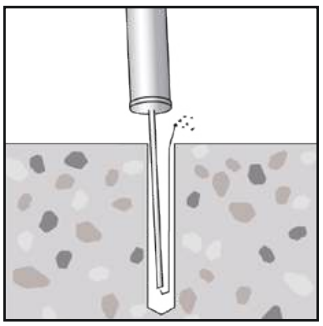
Tamper resistant and permanent fixing.

Manufactured from hardened carbon steel for superior strength

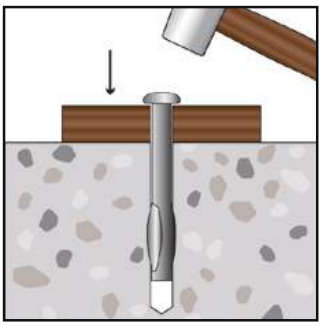
## INSTALLATION



Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Place fixture then drive anchor through fixture into drilled hole using a hammer until fixture is firmly clamped.

# SPLIT DRIVE ANCHOR
# MUSHROOM HEAD

MECHANICAL GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) | Anchor diameter / drill hole (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Maximum fixture thickness* (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | $l_t$ | $d_0$ | $h_1$ | $t_{fix,\ max}$ | $h_{nom}$ | $d_f$ |
| ASDMG060382 | 100 | 38 | 6 | 42 | 6 | 32 | 8 |
| ASDMG060502 | | 50 | | 50 | 10 | 40 | |
| ASDMG060652 | | 65 | | 50 | 25 | 40 | |
| ASDMG060752 | | 75 | | 50 | 35 | 40 | |
| ASDMG061002 | | 100 | | 50 | 60 | 40 | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor diameter / drill hole diameter (mm) | Minimum embedment depth @ $t_{fix,\ max}$ (mm) | Minimum substrate thickness (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|
| | | | | | Tensile (kN) | Shear (kN) |
| $d_0$ | $h_{nom}$ | $h_{min}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| 6 | 32 | 100 | 65 | 75 | 1.0 | 1.4 |
| | 40 | | | | | |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with ( $N_{app}$ / $N_{rec}$ ) + ( $V_{app}$ / $V_{rec}$ ) ≤ 1.2.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# METAL PIN ANCHOR
## MUSHROOM HEAD

### Features & Benefits

- Light duty displacement setting anchor
- Through fastening applications only
- Simply hammer into pre – drilled hole to install
- Suitable for concrete, solid brick, block & stone
- Tamper resistant

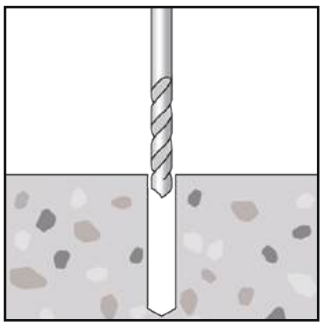
### Application / Trades

- Signage
- Brackets
- Sanitary fixtures
- Public infrastructure where tamper resistance is desired
- Not recommended for overhead use

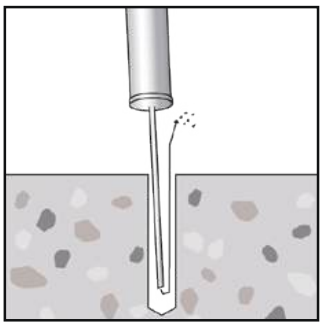
Low profile, large diameter mushroom head firmly captures the fixture

Zinc Alloy body

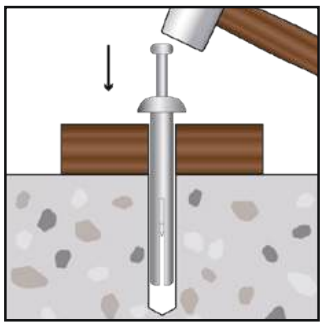
### INSTALLATION



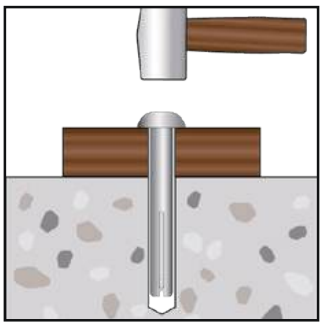
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact.



Continue driving the drive pin until the head of the pin is flush with the anchor head.

# METAL PIN ANCHOR
## MUSHROOM HEAD

ZINC PLATED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) $d_0$ | Anchor length (mm) $l_t$ | Maximum fixture thickness* (mm) $t_{fix,\,max}$ | Drill hole depth* @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) $h_{nom}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|
| AMPMZ050222 | 100 | 5 | 22 | 2 | 25 | 20 | 6 |
| AMPMZ060202 | 100 | 6.5 | 20 | 2 | 25 | 18 | 8 |
| AMPMZ060252 | | | 25 | 5 | 30 | 20 | |
| AMPMZ060322 | | | 32 | 7 | 35 | 25 | |
| AMPMZ060382 | | | 38 | 8 | 40 | 30 | |
| AMPMZ060502 | | | 50 | 15 | 45 | 35 | |
| AMPMZ060752 | | | 75 | 40 | 45 | 35 | |
| AMPM6060302 | 100 | 6.5 | 30 | 5 | 30 | 25 | 8 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) $h_{nom}$ | Minimum substrate thickness (mm) $h_{min}$ | Recommended Capacities Load in any direction (kg) $F_{rec}$ |
|---|---|---|---|
| 5 | 20 | 50 | 10 |
| 6.5 | 25 | 65 | 12 |

**Note:** Recommended capacities are based on:
– 20MPa concrete compressive strength.

**Important Disclaimer:** Capacity information on page 260 applies

NON SAFETY CRITICAL

# SHIELD ANCHOR
## METRIC & IMPERIAL

ZINC YELLOW

### Features & Benefits

- Light duty torque controlled expansion anchor
- Internal thread accepts a wide range of threaded fasteners
- Can be removed from hole if required – ideal for make good in leased space environments
- Suitable for a wide range of substrates
- Includes imperial thread option for legacy applications

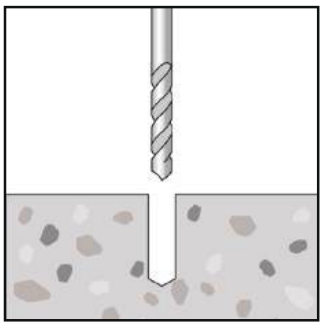
### Application / Trades

- Signage
- Brackets
- Not suited to through fastening applications

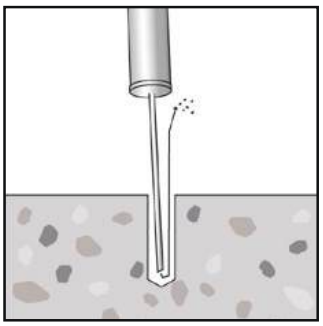
Anchor design provides a flush finish

Internal thread enables user choice of fastener to best suit application.

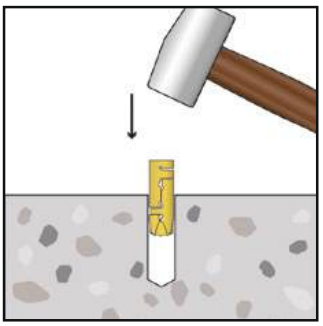
## INSTALLATION



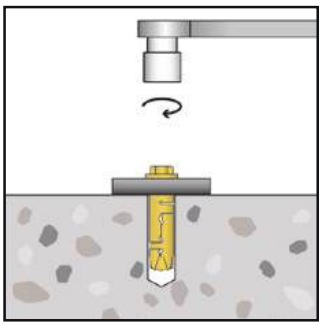
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Tap anchor into the drilled hole using a hammer until flush with substrate surface.



Place fixture, install fastener and apply specified installation torque.

# SHIELD ANCHOR
## METRIC & IMPERIAL

ZINC YELLOW

## RANGE

| Product Code | Pack Quantity | Anchor size/ Thread size | Drill hole Ø (mm) | Anchor length/ Drill hole depth (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|
| | | | $d_0$ | $l_t$&$h_1$ | $d_f$ |
| **METRIC** | | | | | |
| ASHMZ100002 | 25 | M10 | 16 | 52 | 12 |
| **IMPERIAL** | | | | | |
| ASHIZ100002 | 25 | 3/8" | 5/8" | 52 | 12 |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Maximum Installation torque (Nm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Recommended Capacities | |
|---|---|---|---|---|---|---|---|
| | | | | | | Tensile (kN) | Shear (kN) |
| | $h_{nom}$ | $h_{min}$ | $T_{inst}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ | $V_{rec}$ |
| M10 or 3/8" | 52 | 100 | 15 | 150 | 80 | 4.0 | 4.2 |

**Note:** Recommended capacities are based on:
– Single anchor.
– Critical anchor spacing and edge distance values.
– 20MPa concrete compressive strength.
– (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
– Shear load directed away from concrete edge.
– For combined load cases (tension & shear) – must also comply with $( N_{app} / N_{rec} ) + ( V_{app} / V_{rec} ) \leq 1.2$.

**Important Disclaimer:** Capacity information on page 260 applies

NON SAFETY CRITICAL

# UNIVERSAL FRAME ANCHOR

## HEX HEAD

### Features & Benefits

- Multiple fixings in non structural applications
- Intended working life of 50 years
- Suitable for damp, external applications

### Application / Trades

- Fixing to concrete, solid & hollow masonry units
- Timber Framing
- Gates, metal brackets
- Door frames, windows, battens

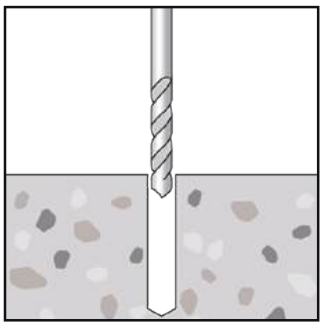
HOT DIPPED GALVANISED

KEW®

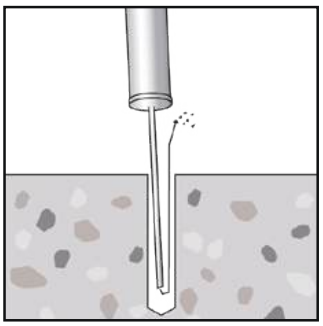
Washered Hex head is ideal for timber applications

Nylon sleeve provides insulation between fixing screw and substrate

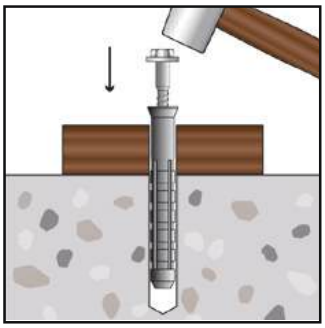
## INSTALLATION



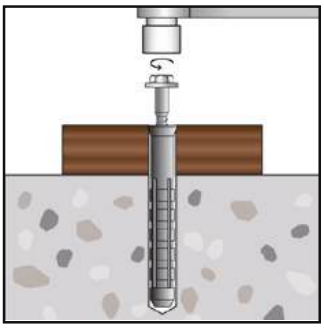
Drill hole into substrate to the specified diameter and depth



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact.



Drive the screw until it is flush with the anchor head using an electric screwdriver to set the anchor.

# UNIVERSAL FRAME ANCHOR
## HEX HEAD

HOT DIPPED GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor length (mm) $l_t$ | Maximum fixture thickness (mm) $t_{fix,\,max}$ | Drill hole dimensions @ $t_{fix,\,max}$ (mm) $d_0 \times h_1$ | Socket size AF (mm) SW |
|---|---|---|---|---|---|
| RDDSG100802 | 50 | 80 | 10 | Ø10 x 90 | 13 |
| RDDSG101002 | 50 | 100 | 20 | | |
| RDDSG101202 | 50 | 120 | 40 | | |
| RDDSG101402 | 50 | 140 | 60 | | |
| RDDSG101602 | 50 | 160 | 80 | | |
| RDDSG101802 | 50 | 180 | 100 | | |
| RDDSG102002 | 50 | 200 | 120 | | |

**Note:** For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max} - t_{fix}$ actual).

# UNIVERSAL FRAME ANCHOR
# HEX HEAD

HOT DIPPED GALVANISED

## PRODUCT INSTALL & PERFORMANCE INFORMATION – CONCRETE

| Product Code | Drill hole dimensions @ $t_{fix,\ max}$ (mm) | Anchor embedment depth (mm) | Minimum concrete thickness (mm) | Recommended Capacities | |
|---|---|---|---|---|---|
| | | | | Tensile (kN) | Shear (kN) |
| | $d_0$ x $h_1$ | $h_{nom}$ | $h_{min}$ | $N_{rec}$ | $V_{rec}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 115 | 1.3 | 1.9 |

**Note:** Concrete cylinder compressive strength ≥ 20MPa.
Valid for temperature range 24 °C / 40 °C (maximum air temperature / maximum short-term temperature).
For combined load cases - must also comply with $(N_{app} / N_{rec}) + (V_{app} / V_{rec}) \leq 1.2$.
Single anchor - no nearby edge, minimum recommended concrete thickness.
Refer to ETA document for details.

## PRODUCT INSTALL & PERFORMANCE INFORMATION – MASONRY UNITS

| Product Code | Drill hole dimensions @ $t_{fix,\ max}$ (mm) | Anchor embedment depth (mm) | Recommended Capacities Load in any direction (kN) | |
|---|---|---|---|---|
| | | | Solid Masonry | Hollow Masonry |
| | $d_0$ x $h_1$ | $h_{nom}$ | $F_{rec}$ | $F_{rec}$ |
| All Product Codes in Range | Ø10 x 90 | 80 | 1.3 | 0.3 |

**Note:** Masonry unit compressive strength ≥ 20MPa.
Valid for temperature range 24 °C / 40 °C (maximum air temperature / maximum short-term temperature).
Refer to ETA document for details of the relevant masonry units.

**Important Disclaimer:** Product performance and capacity information on page 208 applies.

NON SAFETY CRITICAL

# NYLON NAIL IN ANCHOR

## Features & Benefits

- Through fastening, light duty
- Set by hammering drive pin into nylon anchor body
- Suitable for concrete, solid brick, block & stone
- Removable with screwdriver if required
- Nylon anchor body insulates anchor screw from fixture

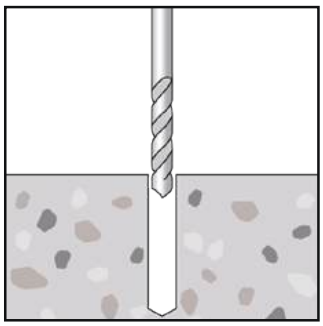
## Application / Trades

- Signage
- Brackets
- Sanitary fixtures

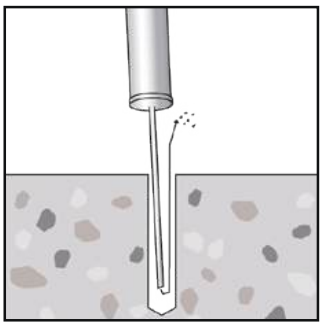
A wide range of head styles, accomodating a wide range of applications

Nylon anchor body insulates anchor screw from fixture

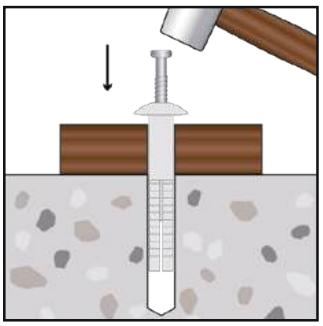
## INSTALLATION



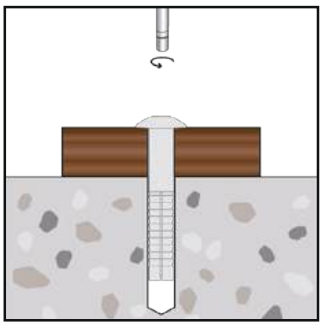
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Tap the anchor through the fixture into the drilled hole with light hammer blows until anchor is flush with fixture surface and the drive pin is flush with the head of the anchor.



Anchor may be removed by unscrewing drive pin with a flat blade screwdriver.

# NYLON NAIL IN ANCHOR

ZINC PLATED  STAINLESS STEEL 304  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\ max}$ (mm) | Minimum embedment depth* @ $t_{fix,\ max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | $d_{nom}$ / $d_0$ | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| **MUSHROOM HEAD** | | | | | | | |
| ANMMZ050192 | 100 | 5 | 19 | 4 | 20 | 15 | 6 |
| ANMMZ050252 | | | 25 | 5 | 25 | 20 | |
| ANMMZ050382 | | | 38 | 13 | 30 | 25 | |
| ANMMZ060252 | 100 | 6.5 | 25 | 5 | 25 | 20 | 8 |
| ANMMZ060382 | | | 38 | 13 | 30 | 25 | |
| ANMMZ060502 | | | 50 | 20 | 35 | 30 | |
| ANMMZ060752 | | | 75 | 40 | 40 | 35 | |
| ANMMZ061002 | | | 100 | 60 | 65 | 40 | |
| ANMM4050252 | 100 | 5 | 25 | 5 | 25 | 20 | 6 |
| ANMM4060252 | 100 | 6.5 | 25 | 5 | 25 | 20 | 8 |
| **ROUND HEAD** | | | | | | | |
| ANRMZ050252 | 100 | 5 | 25 | 5 | 25 | 20 | 6 |
| ANRMZ050382 | | | 38 | 13 | 30 | 25 | |
| ANRMZ060252 | 100 | 6.5 | 25 | 5 | 25 | 20 | 8 |
| ANRMZ060382 | | | 38 | 13 | 30 | 25 | |
| ANRMZ060502 | | | 50 | 20 | 35 | 30 | |
| ANRMZ060752 | | | 75 | 40 | 40 | 35 | |
| ANRM4050252 | 100 | 5 | 25 | 5 | 25 | 20 | 6 |
| ANRM4060382 | 100 | 6.5 | 38 | 13 | 30 | 25 | 8 |
| **COUNTERSUNK HEAD** | | | | | | | |
| ANKMZ050252 | 100 | 5 | 25 | 5 | 25 | 20 | 6 |
| ANKMZ050382 | | | 38 | 13 | 30 | 25 | |
| ANKMZ060252 | 100 | 6.5 | 25 | 5 | 25 | 20 | 8 |
| ANKMZ060382 | | | 38 | 13 | 30 | 25 | |
| ANKMZ060502 | | | 50 | 20 | 35 | 30 | |
| ANKMZ060752 | | | 75 | 35 | 45 | 40 | |
| ANKM6050332 | 100 | 5 | 33 | 8 | 30 | 25 | 6 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

# NYLON NAIL IN ANCHOR

ZINC PLATED  STAINLESS STEEL 304  STAINLESS STEEL 316

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Recommended Capacities Load in any direction (kg) |
|---|---|---|---|
| $d_{nom}$ / $d_0$ | $h_{nom}$ | $h_{min}$ | $F_{rec}$ |
| 5 | 20 | 65 | 10 |
| | 25 | | 12 |
| 6.5 | 25 | 65 | 12 |
| | 30 | 75 | 16 |

**Note:** Recommended capacities are based on:
- 20MPa concrete compressive strength.
- Characteristic ultimate capacities / 4.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# HEAVY DUTY NYLON ANCHOR
## COUNTERSUNK HEAD

### Features & Benefits

- Through fastening, light duty
- Set by hammering screw into nylon anchor body
- Suitable for concrete, solid brick, block & stone
- Removable with PH2 / PH3 screwdriver if required
- Nylon anchor body insulates anchor screw from fixture

### Application / Trades

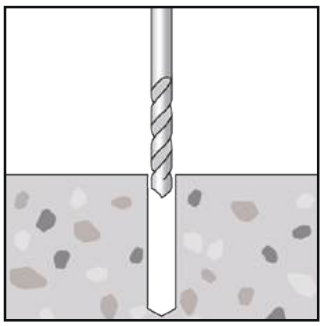
- Signage
- Brackets
- Fixing timber battens

Countersunk head for a flush finish

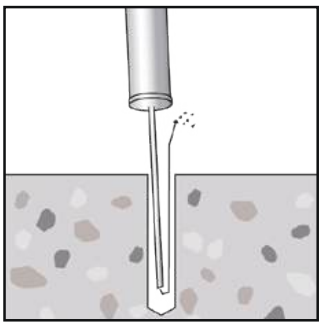


Nylon sleeve insulates the screw from the substrate

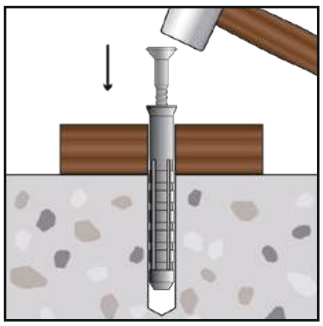
### INSTALLATION



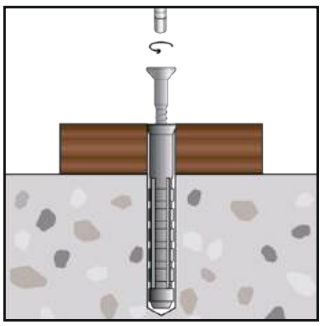
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact. Continue driving the screw until it is seated in the head of the anchor.



Screw may be removed later if required, using a screwdriver.

# HEAVY DUTY NYLON ANCHOR
# COUNTERSUNK HEAD

ZINC PLATED  STAINLESS STEEL 316

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length (mm) | Maximum fixture thickness* (mm) | Drill hole depth* @ $t_{fix,\,max}$ (mm) | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) | Fixture clearance hole Ø (mm) |
|---|---|---|---|---|---|---|---|
| | | $d_{nom}$/ $d_0$ | $l_t$ | $t_{fix,\,max}$ | $h_1$ | $h_{nom}$ | $d_f$ |
| ANHMZ050332 | 100 | 5 | 33 | 8 | 30 | 25 | 6 |
| ANHMZ050432 | | | 43 | 13 | 35 | 30 | |
| ANHMZ050502 | | | 50 | 20 | 35 | 30 | |
| ANHMZ060442 | 100 | 6 | 44 | 14 | 35 | 30 | 7 |
| ANHMZ060552 | | | 55 | 25 | | | |
| ANHMZ060722 | | | 72 | 42 | | | |
| ANHMZ080722 | 100 | 8 | 72 | 32 | 50 | 40 | 9 |
| ANHMZ081002 | | | 100 | 60 | | | |
| ANHMZ081202 | | | 120 | 80 | | | |
| ANHM6050332 | 100 | 5 | 33 | 8 | 30 | 25 | 6 |
| ANHM6060552 | 100 | 6 | 55 | 25 | 30 | 30 | 7 |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Phillips driver size | Recommended Capacities Load in any direction (kg) |
|---|---|---|---|---|
| $d_{nom}$/ $d_0$ | $h_{nom}$ | $h_{min}$ | | $F_{rec}$ |
| 5 | 25 | 65 | PH2 | 15 |
| 6 | 30 | 75 | PH2 | 22 |
| 8 | 40 | 100 | PH3 | 30 |

**Note:** Recommended capacities are based on:
– 20MPa concrete compressive strength.
– Characteristic ultimate capacities / 4.

**Important Disclaimer:** Capacity information on page 260 applies

NON SAFETY CRITICAL

# HEAVY DUTY NYLON ANCHOR
## COUNTERSUNK HEAD

### Features & Benefits

- Through fastening, medium duty
- Set by hammering screw into nylon anchor body
- Suitable for concrete, solid brick, block & stone
- Removable with PH2 screwdriver if required
- Nylon anchor body insulates anchor screw from fixture

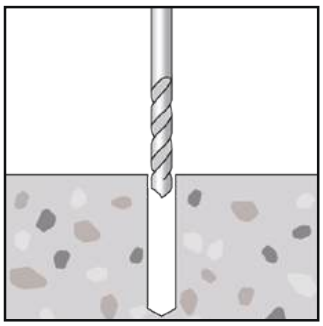
### Application / Trades

- Signage
- Brackets
- Fixing timber battens
- Skirting boards
- Cladding

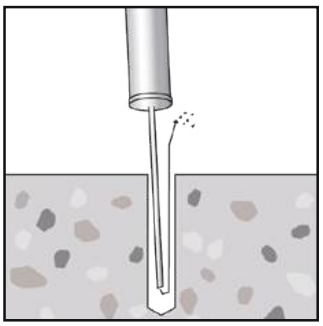
Countersunk head for a flush finish

Nylon sleeve insulates the screw from the substrate

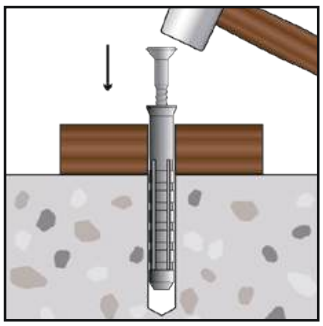
## INSTALLATION



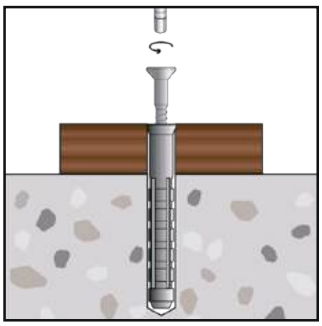
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



Tap anchor through the fixture into the substrate until all are firmly in contact. Continue driving the screw until it is seated in the head of the anchor.



Screw may be removed later if required, using a screwdriver.

# HEAVY DUTY NYLON ANCHOR
# COUNTERSUNK HEAD

ZINC PLATED  STAINLESS STEEL 304

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length (mm) $l_t$ | Maximum fixture thickness* (mm) $t_{fix,\,max}$ | Drill hole depth* @ $t_{fix,\,max}$ (mm) $h_1$ | Minimum embedment depth* @ $t_{fix,\,max}$ (mm) $h_{nom}$ | Fixture clearance hole Ø (mm) $d_f$ |
|---|---|---|---|---|---|---|---|
| KNDZZ050302 | 100 | 5 | 30 | 3 | 35 | 27 | 6 |
| KNDZZ050502 | | | 50 | 20 | | 30 | |
| KNDZZ060352 | 50 | 6 | 35 | 3 | 40 | 32 | 7 |
| KNDZZ060502 | | | 50 | 18 | | | |
| KNDZZ060602 | | | 60 | 28 | | | |
| KNDZZ080402 | 50 | 8 | 40 | 3 | 45 | 37 | 9 |
| KNDZZ080602 | | | 60 | 23 | 50 | | |
| KNDZZ080802 | | | 80 | 43 | 50 | | |
| KNDZZ081002 | | | 100 | 63 | 50 | | |
| KNDZZ081202 | | | 120 | 83 | 50 | | |
| KNDZ4060402 | 50 | 6 | 40 | 10 | 40 | 30 | 7 |
| KNDZ4060602 | | | 60 | 30 | | | |
| KNDZ4080602 | 50 | 8 | 60 | 20 | 50 | 40 | 9 |
| KNDZ4080802 | | | 80 | 40 | | | |

**Note:** * For a fixture thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) & concrete thickness ($h_{min}$) by ($t_{fix,max}$ - $t_{fix}$ actual)

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Anchor / Drill hole Ø (mm) | Minimum embedment depth (mm) $h_{nom}$ | Phillips driver size | Recommended Capacities Load in any direction (kg) $F_{rec}$ |
|---|---|---|---|
| 5 | 25 | PH2 | 20 |
| 6 | 30 | PH2 | 30 |
| 8 | 40 | PH2 | 45 |

**Note:** Recommended capacities are based on:
- 20MPa concrete compressive strength.
- Characteristic ultimate capacities / 4.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# NYLON WALL PLUG

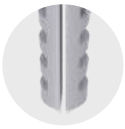
## Features & Benefits

- Suitable for concrete, solid brick, block & stone
- Manufactured from high quality Nylon
- Anti rotation fins ensures reliable setting

## Application / Trades

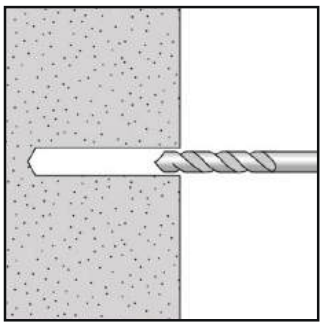
- Signage
- Brackets
- Skirting boards
- Rails

Anti spin lugs designed to prevent the plug from rotating in the hole

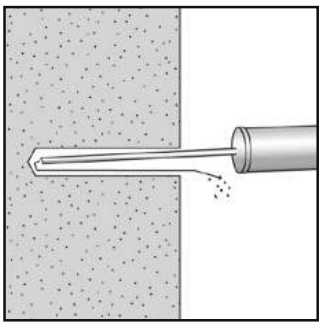


Tapered plug end simplifies installation

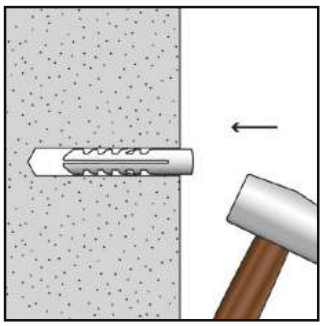
## INSTALLATION



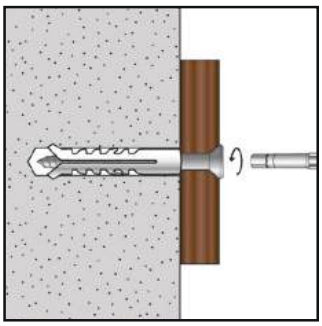
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.



Insert wall plug into hole until flush with surface.



Mount fixture and fasten by driving the Bremick screw firmly into the wall plug until fixture is clamped. Take care not to over tighten.

# NYLON WALL PLUG

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length / embedment depth (mm) $l_t$ / $h_{nom}$ | Drill hole depth (mm) $h_1$ | Minimum substrate thickness (mm) $h_{min}$ | Use with timber screw gauge | Tensile capacity (kN) $F_{rec}$ |
|---|---|---|---|---|---|---|---|
| PWPMN050252 | 100 | 5 | 25 | 35 | 75 | 5 – 7 g | 0.2 |
| PWPMN060302 | 100 | 6 | 30 | 40 | 75 | 6 – 9 g | 0.5 |
| PWPMN070352 | 100 | 7 | 35 | 45 | 75 | 9 – 12 g | 0.6 |
| PWPMN080402 | 100 | 8 | 40 | 50 | 100 | 10 – 14 g | 0.8 |
| PWPMN100502 | 50 | 10 | 50 | 65 | 100 | 14 – 18 g | 1.4 |
| PWPMN120602 | 25 | 12 | 60 | 75 | 100 | 18 – 24 g | 1.9 |

**Note:** Minimum screw length = Anchor length ($l_t$) + total fastened thickness + drill hole diameter ($d_o$).
Recommended capacities are based on:
– 20MPa concrete compressive strength.
– Characteristic ultimate capacities / 4.
– Use of the largest screw gauge recommended.

# PVC WALL PLUG

## Features & Benefits

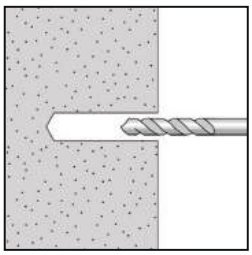
- Suitable for concrete, brick, block and stone
- Cost effective light duty anchoring
- Chamfered end to simplify installation

## Application / Trades

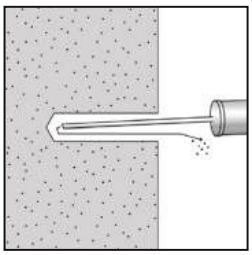
- Light duty applications
- Brackets
- Skirting boards
- Sanitary fixings

Chamfered ends for easy insertion

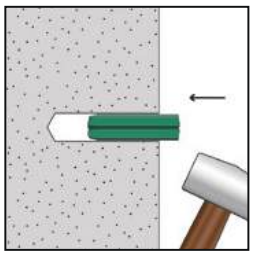
Longitudinal grooving for an increased hold



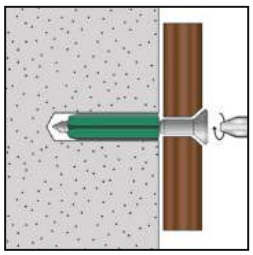
Drill hole into substrate to the specified depth.



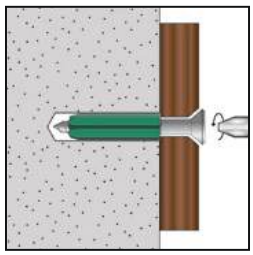
Clear hole of drilling debris.



Insert wall plug chamfered end into the substrate, then tap in to be flush with the surface.



Mount the fixture and fasten by driving the correctly sized Bremick screw until the fixture is clamped.



Fixture and anchor may be removed if required

# PVC WALL PLUG
## FRAME PACK

### RANGE

| Product Code | Pack Quantity | Plug colour | Anchor / Drill hole Ø (mm) $d_0$ | Anchor length / embedment depth (mm) $l_t$ / $h_{nom}$ | Drill hole depth (mm) $h_1$ | Minimum substrate thickness (mm) $h_{min}$ | Use with timber screw gauge |
|---|---|---|---|---|---|---|---|
| PWPMF050252 | 500 | White | 5 | 25 | 25 | 75 | 4.5 – 6 g |
| PWPMF050352 | | | | 35 | 35 | | |
| PWPMF060252 | 500 | Red | 6 | 25 | 25 | 75 | 8 – 9 g |
| PWPMF060302 | | | | 30 | 30 | 75 | |
| PWPMF060352 | | | | 35 | 35 | 75 | |
| PWPMF060502 | | | | 50 | 50 | 100 | |
| PWPMF070252 | 500 | Green | 7 | 25 | 25 | 75 | 10 – 12 g |
| PWPMF070302 | | | | 30 | 30 | 75 | |
| PWPMF070352 | | | | 35 | 35 | 75 | |
| PWPMF070502 | | | | 50 | 50 | 100 | |
| PWPMF080252 | 500 | Blue | 8 | 25 | 25 | 75 | 14 – 16 g |
| PWPMF080352 | | | | 35 | 35 | 75 | |
| PWPMF080502 | | | | 50 | 50 | 100 | |
| PWPMF100502 | 500 | Orange | 10 | 50 | 50 | 100 | 18 – 20 g |
| PWPMF120502 | 500 | Grey | 12 | 50 | 50 | 100 | 20 – 24 g |

**Note:** Minimum screw length = Anchor length ($l_t$) + total fastened thickness.

NON SAFETY CRITICAL

# SUPER EXPANSION PLUG

## Features & Benefits

- Suitable for concrete, solid brick, block & stone
- Triple split expansion for reliable holding power
- Anti rotation fins ensure reliable setting

## Application / Trades

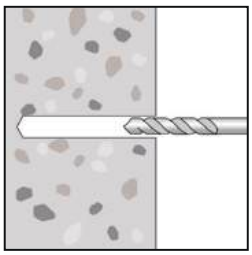
- Signage
- Brackets
- Skirting boards
- Rails



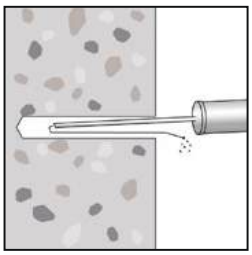
Heavy duty radial fins prevent anchor spin

Triple split design expands in three directions for maximum holding power

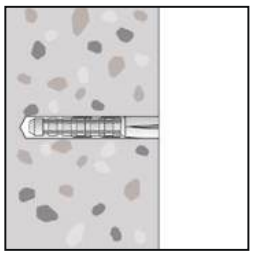
## INSTALLATION



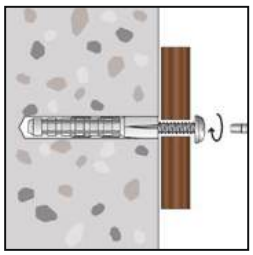
Drill hole into substrate to the specified diameter and depth.



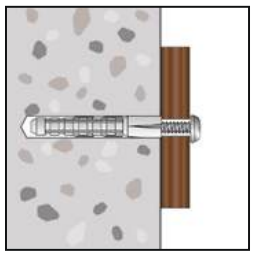
Clear hole of drilling debris.



Insert plug flush with the substrate surface.

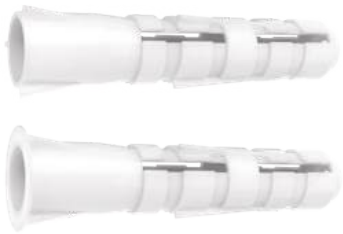


Mount the fixture and fasten by driving the correctly sized Bremick screw until the fixture is clamped.



Fixture and anchor may be removed if required.

# SUPER EXPANSION PLUGS
## PUSH THROUGH & COLLARED



## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) $d_0$ | Anchor length / embedment depth (mm) $l_t$ / $h_{nom}$ | Drill hole depth (mm) $h_1$ | Use with screw gauge | Tensile capacity (kN) $N_{rec}$ |
|---|---|---|---|---|---|---|
| **PUSH THROUGH PLUG** | | | | | | |
| KDSDS050252 | 100 | 5 | 25 | 35 | 5 – 7 g | 0.3 |
| KDSDS060302 | 100 | 6 | 30 | 40 | 6 – 9 g | 0.8 |
| KDSDS070352 | 100 | 7 | 35 | 45 | 9 – 12 g | 1.0 |
| KDSDS080402 | 100 | 8 | 40 | 50 | 10 – 14 g | 1.3 |
| KDSDS100502 | 50 | 10 | 50 | 65 | 14 – 18 g | 2.1 |
| KDSDS120602 | 25 | 12 | 60 | 75 | 18 – 24 g | 2.9 |
| KDSDS140702 | 20 | 14 | 70 | 85 | 24 – 28 g | 4.0 |
| **COLLARED PLUG** | | | | | | |
| KKSDS050252 | 100 | 5 | 25 | 35 | 5 – 7 g | 0.3 |
| KKSDS060302 | 100 | 6 | 30 | 40 | 6 – 9 g | 0.8 |
| KKSDS070352 | 100 | 7 | 35 | 45 | 9 – 12 g | 1.0 |
| KKSDS080402 | 100 | 8 | 40 | 50 | 10 – 14 g | 1.3 |
| KKSDS100502 | 50 | 10 | 50 | 65 | 14 – 18 g | 2.1 |
| KKSDS120602 | 25 | 12 | 60 | 75 | 18 – 24 g | 2.9 |
| KKSDS140702 | 20 | 14 | 70 | 85 | 24 – 28 g | 4.0 |

**Note:** Minimum screw length = Anchor length ($l_t$) + total fastened thickness + drill hole diameter ($d_0$).
Recommended capacities are based on:
– 20MPa concrete compressive strength.
– Characteristic ultimate capacities / 4.
– Use of the largest screw gauge recommended.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# SUPER UNIVERSAL PLUG

## Features & Benefits

- Suitable for concrete, solid & hollow masonry, boards & panels
- Expansion free plug collar prevents damage to renders & grouts
- Anti rotation fins ensures reliable setting
- Triple split expansion for reliable holding power

## Application / Trades

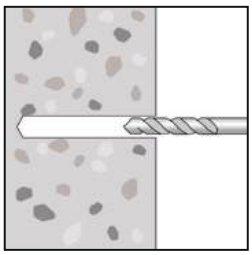
- Signage
- Brackets
- Skirting boards
- Rails

KEW®

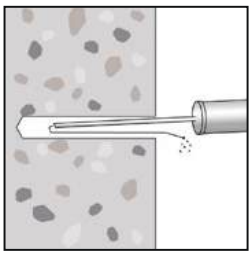
Heavy duty radial fins prevents anchor spin

Triple split design expands in three directions for maximum holding power

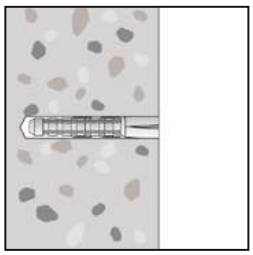
## INSTALLATION



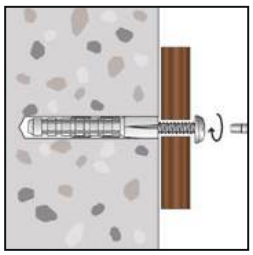
Drill hole into substrate to the specified depth



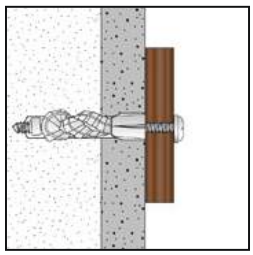
Clear hole of drilling debris.



Insert plug flush with the substrate surface.



Mount the fixture and fasten by driving the correctly sized Bremick screw until the fixture is clamped.



When installed into hollow substrates or through board / panel, plug will knot into void.

# SUPER UNIVERSAL PLUGS
## PUSH THROUGH & COLLARED

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) $d_0$ | Anchor length / embedment depth (mm) $l_t$ / $h_{nom}$ | Drill hole depth (mm) $h_1$ | Use with screw gauge | Tensile capacity (kN) $N_{rec}$ |
|---|---|---|---|---|---|---|
| **PUSH THROUGH PLUG** | | | | | | |
| KESUD060352 | 100 | 6 | 35 | 45 | 6 – 9 g | 0.7 |
| KESUD080502 | 50 | 8 | 50 | 60 | 10 – 14 g | 1.5 |
| KESUD100602 | 25 | 10 | 60 | 75 | 14 – 18 g | 1.7 |
| KESUD120712 | 25 | 12 | 71 | 85 | 18 – 24 g | 2.5 |
| KESUD140752 | 20 | 14 | 75 | 90 | 24 – 28 g | 3.1 |
| **COLLARED PLUG** | | | | | | |
| KESUK050312 | 100 | 5 | 31 | 40 | 5 – 7 g | 0.4 |
| KESUK060362 | 100 | 6 | 36 | 45 | 6 – 9 g | 0.7 |
| KESUK080512 | 50 | 7 | 51 | 60 | 10 – 14 g | 1.5 |
| KESUK100612 | 25 | 8 | 61 | 75 | 14 – 18 g | 1.7 |
| KESUK120722 | 25 | 10 | 72 | 85 | 18 – 24 g | 2.5 |
| KESUK140762 | 20 | 12 | 76 | 90 | 24 – 28 g | 3.1 |

**Note:** Minimum screw length = Anchor length ($l_t$) + total fastened thickness + drill hole diameter ($d_0$).
Recommended capacities are based on:
- 20MPa concrete compressive strength.
- Characteristic ultimate capacities / 4.
- Use of the largest screw gauge recommended.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# UNIVERSAL INSULATION DISK

## Features & Benefits

- Suitable for fixing a wide range of insulation materials & thicknesses
- Accepts a wide range of countersunk head fixings to suit your application
- Cover cap prevents heat loss and insulates fixing from the elements
- Gripping surfaces act to retain renders / plaster

## Application / Trades

Use with Kew Heavy Duty Nylon Anchors (6mm & 8mm) for the fixing of:

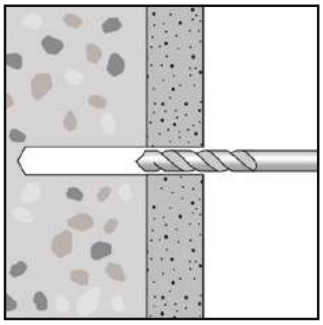
- Thermal or acoustic insulation materials to a wide range of substrates
- Sealing sheets
- Foil
- Mesh fabrics

Use with Bremick self drilling screws to fix into timber

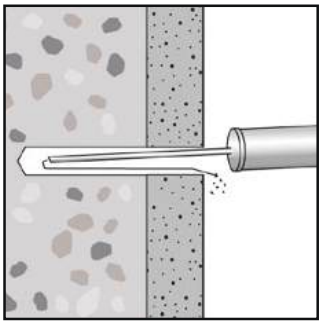
Raised profile assists with mortar and plaster adhesion

Universal design and hole sizing suits various fixing options

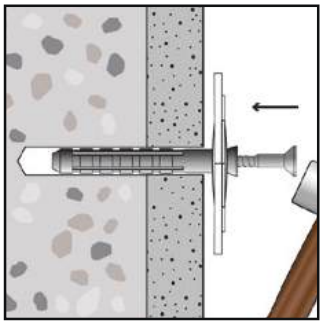
## INSTALLATION INTO CONCRETE USING KEW HEAVY DUTY NYLON ANCHOR



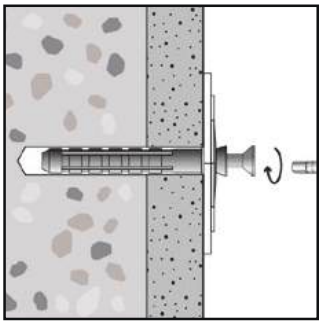
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.

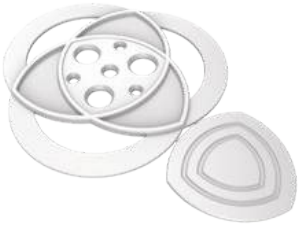


Install anchor through the Insulation disc and push / tap into place until disc pressed against insulation.

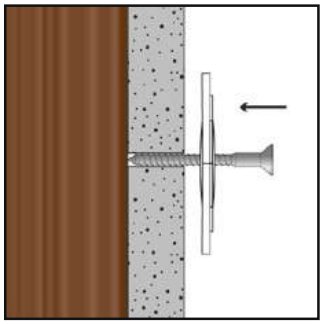


Drive screw into anchor until insulation is clamped. If required, detach the cover plate and attach over the centre of the insulation disc to cover and protect the fixing.

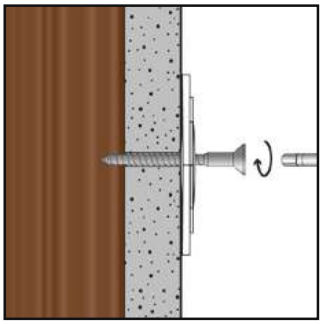
# UNIVERSAL INSULATION DISK



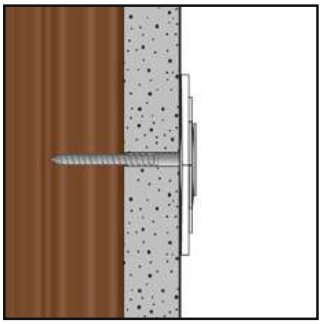
## INSTALLATION INTO TIMBER



Install screw through the insulation disc and push screw through the insulation.



Drive screw into timber member until the insulation is clamped.

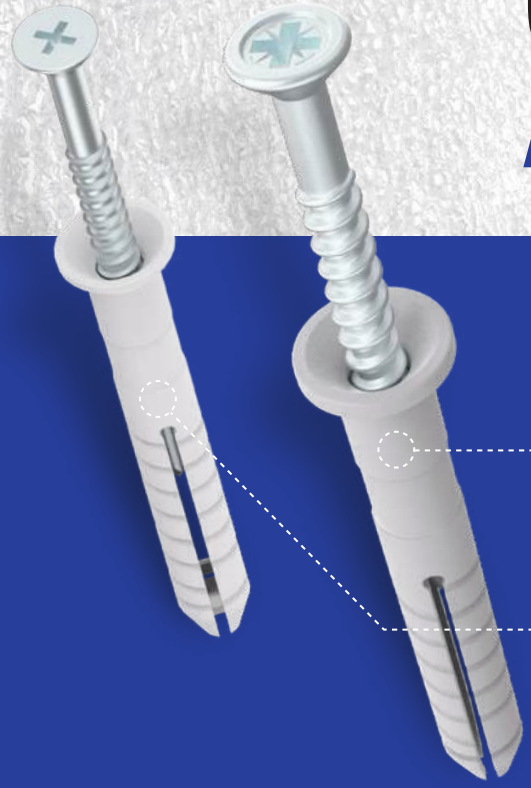


If required, detach the cover plate and fix over the centre of the insulation disc to cover and protect the fixing.

## RANGE

| Product Code | Pack Quantity | Outside diameter (mm) |
|---|---|---|
| KEWUDS84000 | 200 | 84 |

**Note:** Minimum head diameter for fixing to be used is 6mm



# COMPATIBLE ANCHORS

Along with a wide range of Bremick Countersunk head screws for fixing into steel and timber, the Universal Insulation Disk is best paired with our Kew anchors for fixing to concrete and masonry

### KEW UNIVERSAL FRAME ANCHOR

RDDTZ10's (Zinc plated)
RDDT610's (Stainless Steel 316

(See Page 66)

### KEW HEAVY DUTY NYLON ANCHOR

KNDZZ06 (6mm, Zinc plated)
KNDZ406 (6mm, Stainless Steel 304)
KNDZZ08 (8mm, Zinc plated)
KNDZZ08 (8mm, Stainless Steel 304)

(See Page 168)

NON SAFETY CRITICAL

# HAMMER FIX INSULATION FASTENER

## Features & Benefits

- Colour coded
- Bonding for render/plaster overlays
- Full thermal insulation
- ETA Certified (ETAG 014)

## Application / Trades

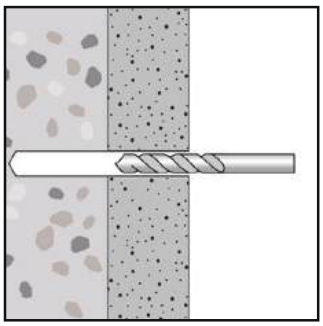
Secure fastening of composite thermal insulation systems to concrete, natural stone, solid/hollow brick and aerated block:

- Thermal insulation
- Acoustic insulation

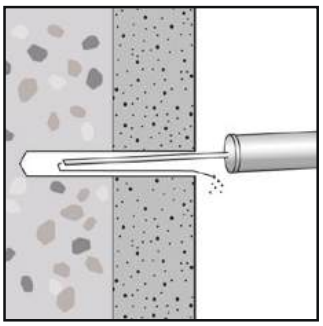
Pre-mounted fastener for quick installation

Anti-rotation fins prevent the anchor spin

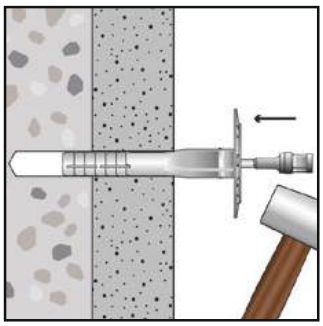
## INSTALLATION



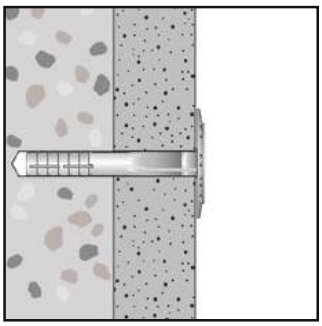
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.



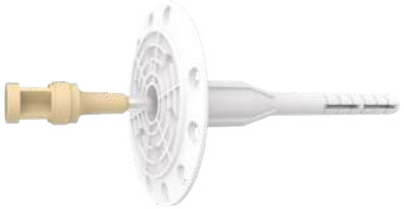
Insert anchor into drilled hole.



When fully inserted hammer the expansion pin into the sleeve until the head of the drive pin locks into the sleeve.

# HAMMER FIX INSULATION FASTENER

ZINC PLATED



## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length (mm) | Insulation Thickness (mm) | Drill hole depth (mm) | Minimum embedment Depth (mm) |
|---|---|---|---|---|---|---|
| | | | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{nom}$ |
| KTSDBE08100 | 200 | 8 | 100 | 60 | 50 | 30 |
| KTSDYE08120 | | | 120 | 80 | | |
| KTSDGR08140 | | | 140 | 100 | | |

## PRODUCT INSTALL & PERFORMANCE INFORMATION

| Product Code | Description | Minimum embedment depth (mm) | Minimum substrate thickness (mm) | Critical anchor spacing (mm) | Critical anchor edge distance (mm) | Tensile Capacity (kN) |
|---|---|---|---|---|---|---|
| | | $h_{nom}$ | $h_{min}$ | $s_{cr}$ | $c_{cr}$ | $N_{rec}$ |
| KTSDBE08100 | Beige, 62mm diameter disc | 30 | 100 | 100 | 100 | 0.5 |
| KTSDYE08120 | Yellow, 62mm diameter disc | | | | | |
| KTSDGR08140 | Green, 62mm diameter disc | | | | | |

**Note:** Recommended capacities are based on:
– Single anchor.
– 20MPa concrete compressive strength.
– Installation per table above.

**Important Disclaimer:** Capacity information on page 208 applies.

NON SAFETY CRITICAL

# METAL INSULATION FASTENER

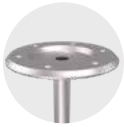
## Features & Benefits

- Suitable for concrete & solid masonry substrates
- Nothing to assemble or lose thanks to the simple 1 piece design
- Fast to install – simply knock it in to the drilled hole to set

## Application / Trades

- Fixing of common rigid and semi rigid insulation materials

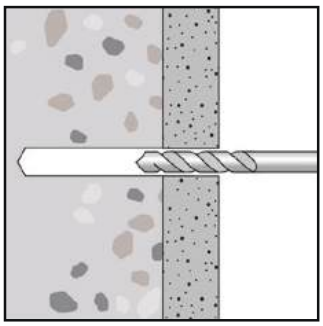

KEW®



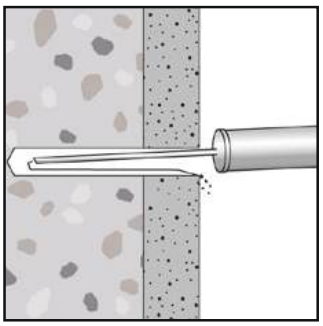
Broad flange prevents the anchor from sinking too deeply into the substrate minimising surface damage

Extended expansion areas for a secure hold

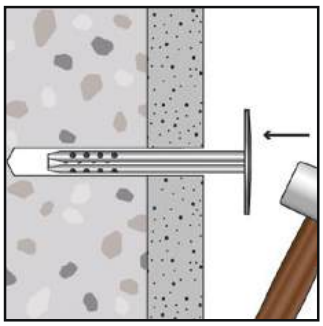
## INSTALLATION



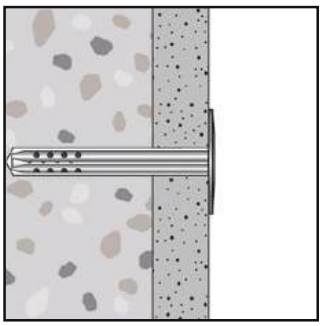
Drill hole through insulation into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Hammer the fastener into place.



Fastener is now secure.

# METAL INSULATION FASTENER

MECHANICAL GALVANISED

## RANGE

| Product Code | Pack Quantity | Anchor / Drill hole Ø (mm) | Anchor length (mm) | Insulation thickness (mm) | Drill hole depth in substrate (mm) | Minimum substrate thickness (mm) | Minimum embedment depth (mm) |
|---|---|---|---|---|---|---|---|
| | | $d_0$ | $l_t$ | $t_{fix,\ max}$ | $h_1$ | $h_{min}$ | $h_{nom}$ |
| KMDSHZ08090 | 250 | 8 | 90 | 40 | 60 | 100 | 50 |
| KMDSHZ08110 | | | 110 | 60 | | | |
| KMDSHZ08140 | | | 140 | 90 | | | |

**Note:** For an insulation thickness ($t_{fix}$) that is less than the $t_{fix,max}$ value tabled above:
– increase both the drill hole depth ($h_1$) and concrete thickness (hmin) by ($t_{fix,max}$ - $t_{fix}$ actual).

NON SAFETY CRITICAL

# INSULATION PLUG

## Features & Benefits

- Suitable for rigid and semi rigid insulation materials
- No pre drilling required – simply drive anchor into insulation
- Broad flange head sets plug flush with the insulation surface

## Application / Trades

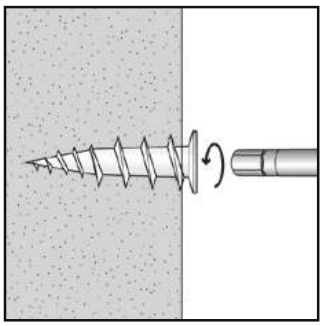
Light duty fixing of:

- Outdoor lights
- House number
- Letter boxes
- Alarm systems
- Downpipes
- Signs

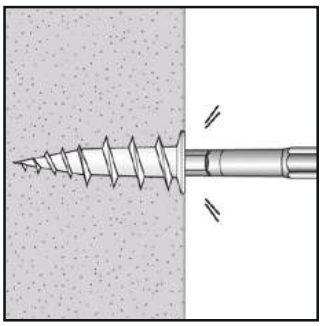
Broad flange head prevents the anchor from sinking too deep into the foam and polystyrene insulation

Aggressive thread provides a secure hold

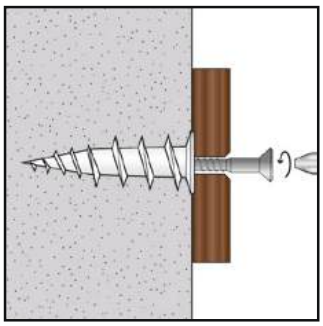
## INSTALLATION



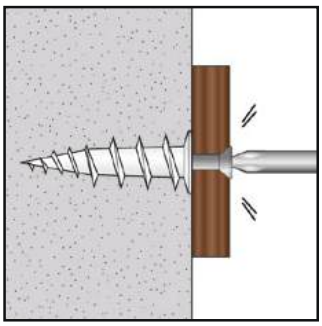
Using the appropriate driver bit, drive the plug into the insulation material.



Ensure the plug set flush or below the insulation surface.



Mount the fixture and drive the recommended Bremick screw into the plug.



Tighten carefully until fixture is clamped to plug & insulation.

# INSULATION PLUG

## RANGE

| Product Code | Pack Quantity | Length of plug (mm) $l_t$ | Minimum insulation thickness (mm) $h_{min}$ | Install using driver bit | Use with screw size |
|---|---|---|---|---|---|
| KEIDT250502 | 50 | 50 | 60 | T40 | M4 / 8g |
| KEIDH250852 | 20 | 85 | 100 | Hex 10mm | M8 / 20g |

**Note:** Inner screw bore is 25mm deep.
Screw length = fixture thickness + 20mm.

# PERMANENT FAST TO INSTALL LIGHT DUTY FIXING

Fast, one-step plug installation into a wide range of Insulation materials (XPS, EPS & others) - with no need for pre drilling

LARGE 25mm DIAMETER HEAD
SECURELY CLAMPS THE FIXTURE

SMART THREAD DESIGN IS EASY TO
INSTALL, DIFFICULT TO REMOVE

OPTIMISED POINT DESIGN
ELIMINATES PRE DRILLING

# PLASTERBOARD PLUG

## Features & Benefits

- Suitable for light duty applications
- Ideal for gypsum plasterboard, 10mm - 20mm thick
- Fully removable if required
- Single piece anchor body
- Use PH2 screwdriver / bit to set anchor & screw

## Application / Trades

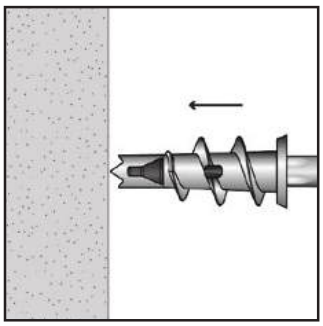
- Light duty fixings
- Picture hooks



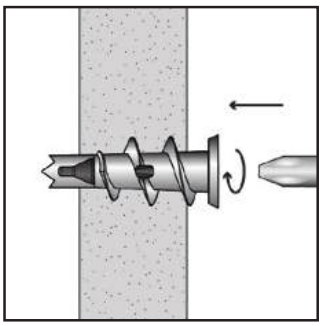
Head shape leaves a flush finish

Aggressive thread provides a secure hold

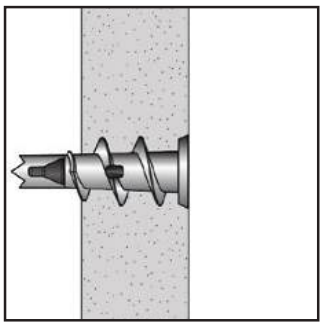
## INSTALLATION



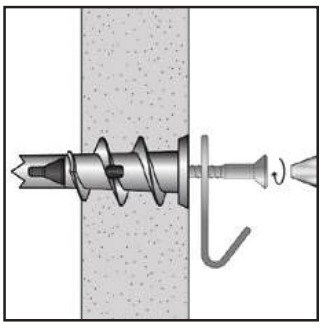
Pierce plasterboard with pluge.



Screw plug in while applying forward pressure.



Plug is installed once flange is flush with plasterboard surface.



Pass screw through fixture then install screw into plug.

# PLASTERBOARD PLUG
## ZINC ALLOY & NYLON

### RANGE

| Product Code | Pack Quantity | Body material | Anchor length (mm) | Suits screw gauges* | Philips driver bit size | Maximum load in any direction** (kg) |
|---|---|---|---|---|---|---|
| | | $d_0$ | $l_t$ / $h_{nom}$ | $h_1$ | | |
| PBAMZ#80002 | 100 | Zinc Alloy | 31 | 6g – 8g | PH2 | 5 |
| PBAMN#80002 | 100 | Nylon | 41 | | | |

**Note:** * Minimum screw length = Anchor length + fixture thickness + 5mm.
** For gypsum plasterboard 10mm thickness.

# UTILITY HOOK
## HEAVY DUTY

### RANGE

| Product Code | Quantity | Eyelet diameter (mm) | Use with: | Maximum capacity (kg) |
|---|---|---|---|---|
| HHDUM050002 | 100 | 5.7mm | M4 & M5 screws / anchors | 10 |

# CAVITY WALL ANCHOR

ZINC YELLOW

## Features & Benefits

- Light duty applications
- Anchor body remains in place when screw removed
- Ideal for plasterboard, can be used with other thin panel materials

## Application / Trades

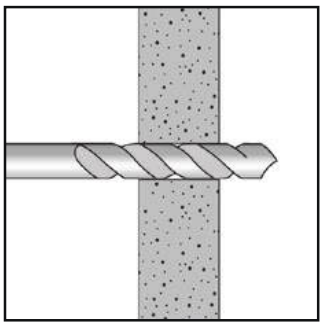
- Light duty wall fixings, brackets
- Picture hooks / rail fixings



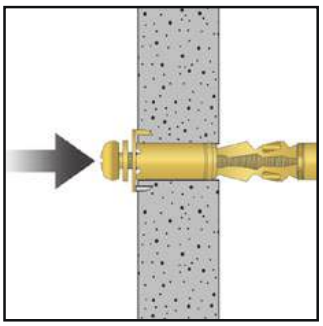
Anti rotation tags prevent the anchor from rotating during setting

Single piece anchor body is retained in wall once set

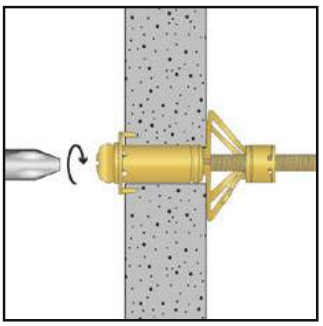
## INSTALLATION



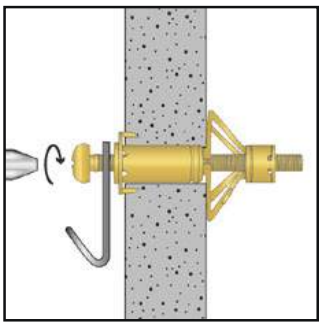
Drill hole through base material at the specified diameter.



Tap lightly with a small hammer if required to set the anti rotation tags.



Screw until the anchor body has pulled up tight against the rear side of the base material. Be careful not to over tighten.

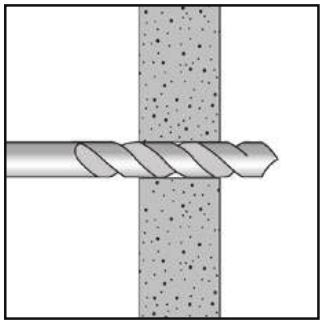


Remove screw, pass it through the fixture then re-install the screw into the anchor body. Carefully tighten until the fixture is secured.

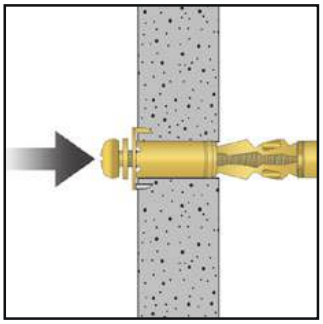
# CAVITY WALL ANCHOR

ZINC YELLOW

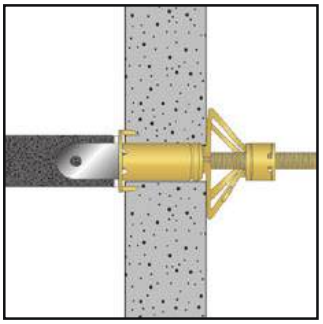
## INSTALLATION FOR VOLUME



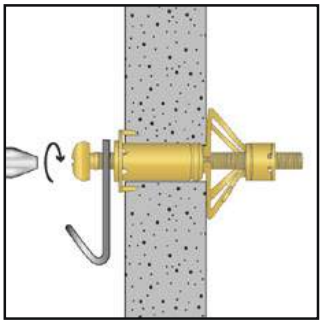
Drill hole through base material at the specified diameter.



Tap lightly with a small hammer if required to set the anti rotation tags.



Using the hollow wall anchor setting tool, draw the anchor body up against the rear side of the base material.



Remove screw, pass it through the fixture then re-install the screw into the anchor body. Carefully tighten until the fixture is secured.

## RANGE

| Product Code | Pack Quantity | Thread size | Suits base material thickness range (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Maximum fixture thickness (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ | Phillips Driver Bit Size (mm) | Maximum load in any direction* (kg) |
|---|---|---|---|---|---|---|---|---|
| AHWMZ040052 | 100 | M4 | 0 – 4 | 7 | 10 | 5 | PH2 | 8 |
| AHWMZ040112 | | | 4 – 9 | | | | | |
| AHWMZ040162 | | | 9 – 14 | | | | | |
| AHWMZ040232 | | | 14 – 20 | | | | | |
| AHWMZ040382 | | | 28 – 34 | | | | | |
| AHWMZ050162 | 100 | M5 | 3 – 13 | 9 | 10 | 6 | PH2 | 10 |
| AHWMZ060162 | 100 | M6 | 3 – 13 | 10 | 10 | 7 | PH3 | 12 |

**Note:** * Capacity for gypsum plasterboard with minimum thickness of 10mm.

**Important Disclaimer:** Capacity information on page 208 applies.

## SETTING TOOL FOR ALL CAVITY WALL ANCHORS

| Product Code | Pack Quantity |
|---|---|
| TMAHWST0012 | 1 |

# SPRING TOGGLE


## Features & Benefits

- Light duty applications
- Ideal for plasterboard, plywood, masonite & other thin panel materials
- Fully removable if required (toggle body will be lost into cavity)
- Suitable for single use only

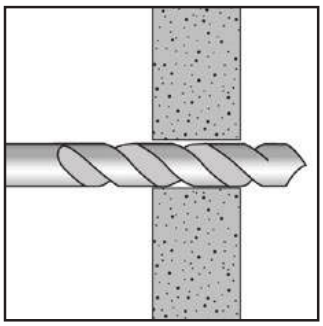
## Application / Trades

- Light duty fastenings into plasterboard & thin base material with cavity behind

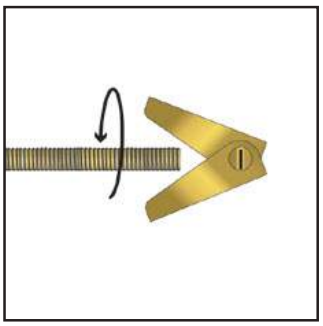
Available in a range of head styles to suit your application

Toggle body distributes load across base material to improve capacity

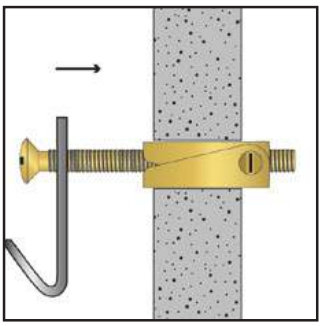
## INSTALLATION



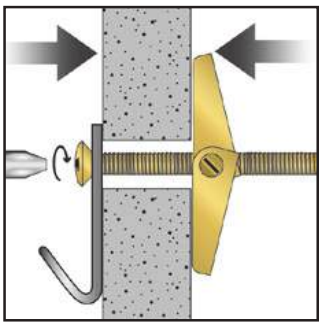
Drill hole through base material at the specified diameter.



Remove screw from toggle body, pass screw through fixture then re-assemble toggle.



Push toggle body through base material until toggle 'snaps' open.



Tighten screw until toggle clamps base material from behind. Take care not to over tighten.

# SPRING TOGGLE

ZINC YELLOW

## RANGE

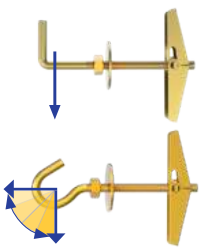
| Product Code | Pack Quantity | Thread size | Anchor length (mm) | Base material drill hole Ø (mm) | Maximum (base material + fixture thickness)* (mm) | Fixture clearance hole Ø (mm) | Philips driver bit size | Maximum load in any direction* (kg) |
|---|---|---|---|---|---|---|---|---|
| **ROUND HEAD** | | | | | | | | |
| TSRMZ040502 | 100 | M4 | 50 | 11 | 25 | 5 | PH2 | 10 |
| TSRMZ040752 | | | 75 | | 50 | | | |
| TSRMZ050502 | 100 | M5 | 50 | 14 | 20 | 6 | PH2 | 12 |
| TSRMZ050752 | 50 | | 75 | | 45 | | | |
| TSRMZ051002 | 50 | | 100 | | 70 | | | |
| TSRMZ060752 | 50 | M6 | 75 | 17 | 40 | | PH3 | 14 |
| **COUNTERSUNK HEAD** | | | | | | | | |
| TSKMZ050502 | 100 | M5 | 50 | 14 | 20 | 6 | PH2 | 12 |
| TSKMZ050752 | 50 | | 75 | | 45 | | | |

**Note:** * Capacity for gypsum plasterboard with minimum thickness of 10mm

## RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) | Base material drill hole Ø (mm) | Maximum load, only in direction shown* (kg) |
|---|---|---|---|---|---|
| **SQUARE HOOK (horizontal install into wall only)** | | | | | |
| TSKMZ050502 | 100 | M5 | 50 | 14 | 10 |
| **CUP HOOK (can be installed horizontally or vertically)** | | | | | |
| TCHMZ050502 | 100 | M5 | 50 | 14 | 10 |

**Note:** * Capacity for gypsum plasterboard with minimum thickness of 10mm



Capacity in direction shown

# GRAVITY TOGGLE
## ROUND HEAD


### Features & Benefits

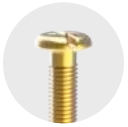
Light duty applications:

- Ideal for plasterboard and other thin panel drywall applications
- Suitable for installing into walls / vertical panels
- Removable if required (toggle body will remain in wall cavity)
- Suitable for single use only
- Cost effective zinc plated carbon steel construction for interior use

### Application / Trades

Light duty applications:

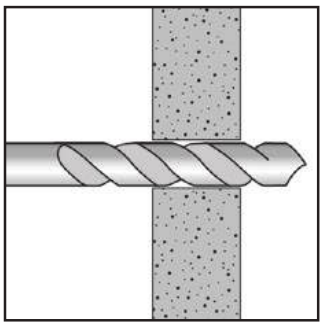
- Ideal for plasterboard, plywood, masonite & other thin panel materials
- Fully removable if required (toggle body will be lost into cavity)
- Suitable for single use only



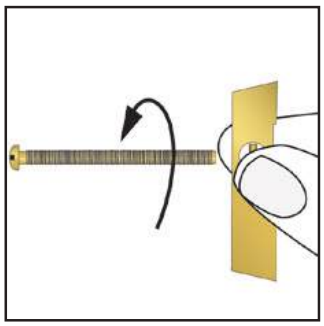
Fully threaded bolt increases fixing versatlility

Toggle body distributes load across base material to improve capacity

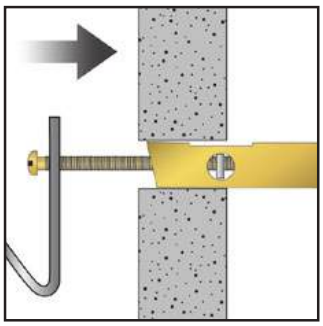
## INSTALLATION



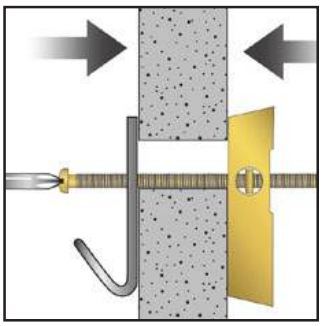
Drill hole through base material at the specified diameter.



Remove screw from toggle body (retain the integral nut), pass screw through fixture then re-assemble toggle.



Push toggle body through base material until toggle drops open into position.



Tighten screw until toggle clamps base material from behind. Take care not to over tighten.

# GRAVITY TOGGLE
## ROUND HEAD

ZINC YELLOW

### RANGE

| Product Code | Pack Quantity | Thread size | Anchor length (mm) $l_t$ | Drill hole Ø (mm) $d_0$ | Maximum fixture thickness* (mm) $t_{fix,\ max}$ | Fixture clearance hole Ø (mm) $d_f$ | Philips driver bit size | Maximum load in any direction** (kg) |
|---|---|---|---|---|---|---|---|---|
| TGRMZ040502 | 100 | M4 | 50 | 11 | 10 | 5 | PH2 | 10 |
| TGRMZ050502 | 100 | M5 | 50 | 14 | 10 | 6 | PH2 | 12 |
| TGRMZ050752 | | | 75 | | 35 | | | |

**Note:** * For walling thicker than 10mm, reduce the maximum fixture thickness accordingly.
** For plasterboard minimum 10mm thickness.

# PLASTIC TOGGLE

## Features & Benefits

- Light duty applications
- Ideal for plasterboard, plywood, masonite & other thin panel materials
- Fully removable if required
- Single piece anchor body
- Anchor body stays in place when screw is removed

## Application / Trades

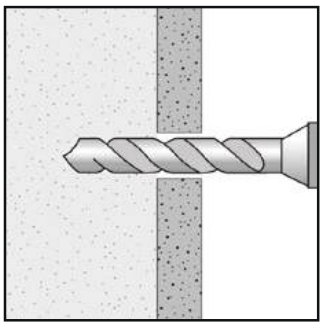
- Light duty wall hangings

Anti spin lugs designed to prevent the plug from rotating in the hole

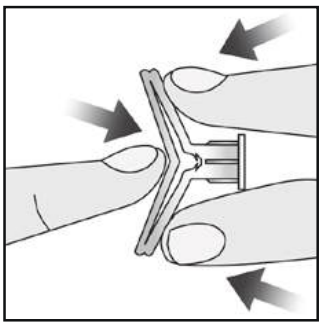


Large flange head retains anchor at surface of base material

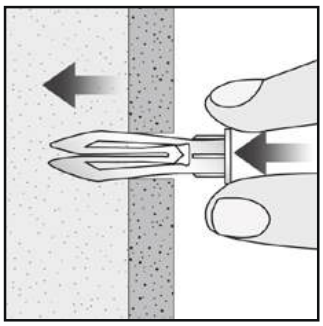
## INSTALLATION



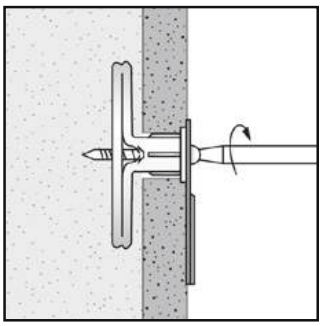
Drill an 8mm diameter hole through the base material.



Collapse the legs of the anchor as shown, holding them closed together with your fingers.



Push the anchor through the base material unitl it is firmly seated. Tap gently with a small hammer if required.



Pass the correct length 6g - 8g screw through the item to be attached and into the anchor body, screw carefully by hand to avoid over tightening.

# PLASTIC TOGGLE

## RANGE

| Product Code | Pack Quantity | For plaster-board / panel thickness range (mm) | Base material drill hole Ø (mm) | Minimum screw length (mm) = fixture thickness + ... | Suits screw gauges | Maximum load in any direction* (kg) |
|---|---|---|---|---|---|---|
| TPTMP080102 | 100 | 10 – 12 | 8 | 22 | 6g - 8g | 5 |
| TPTMP080122 | | 14 – 16 | | 25 | | |
| TPTMP080162 | | 17 – 20 | | 28 | | |

**Note:** * Capacity for gypsum plasterboard with minimum thickness of 10mm

**Important Disclaimer:** Capacity information on page 208 applies.

# PU EXPANDING FOAM


## Features & Benefits

- This Polyurethane expanding foam is economical and convenient to use
- It can be cut, sanded, plastered and painted, has strong adhesion to most surfaces, is durable and will not shrink
- Fills spaces up to 25 times the size of its' can volume

## Application / Trades

- It can be used to fill big gaps, hollows and cavities, to block out draughts, dust, noise, insect and birds

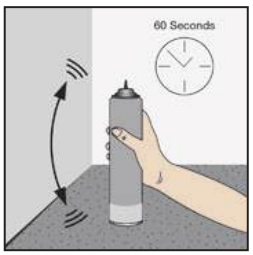
When using the Fire Rated Foam, ensure you have read and understood the appropriate certification relevant to your needs and confirm suitability from the certifying / compliance authority prior to installation.

Convenient 750ml size for bigger jobs

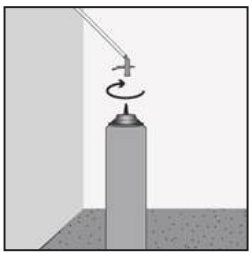

Prepare surfaces and clean up overspray with the versatile cleaner

## INSTRUCTIONS FOR USE – FOAMS

Refer to can label & SDS prior to use.




Shake can vigorously for 60 seconds before use. Repeat periodically during use.



Screw the applicator nozzle firmly into place without pressing the trigger or the valve.

Lightly mist surfaces with water before applying foam to improve adhesion.

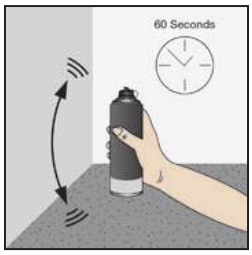
Invert can and gently apply pressure to the top of the actuator to extrude. Apply foam in layers, allowing time between layers for expansion. Lightly mist with water between layers.

Remove unwanted foam residue from surfaces prior to cure with the PU Expanding Foam Cleaner.

# PU EXPANDING FOAM


## INSTRUCTIONS FOR USE – CLEANER

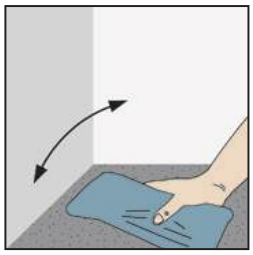
Refer to can label & SDS prior to use.




Shake can vigorously for 60 seconds before use. Repeat periodically during use.

Push the applicator nozzle firmly into place without pressing the trigger or the valve.

Gently apply pressure to the top of the actuator to spray.



Remove all PU foam residues with a clean cloth before the foam cures.

## RANGE

| Product Code | Product Description | Quantity | Size | Colour | Shelf Life |
|---|---|---|---|---|---|
| AEFPUSF7502 | Expanding Foam – Fire Rated Polyurethane | 12 | 760ml | Pink | 12 months |
| AEFPUS07502 | Expanding Foam – Polyurethane | 12 | 750ml | Yellow | 12 months |
| AEFPUCL5002 | Cleaner – Expanding Foam | 12 | 500ml | Clear | 24 months |

# WINDOW PACKER

## Features & Benefits

- Horseshoe configuration with a fixing hole to fasten the packer in place
- Available in 45mm, 75mm, 90mm & 140mm lengths
- Packer in 8 sizes ranging from 1mm to 20mm thick – colour coded for convenience

## Application / Trades

- Bremick Window Packers are a high impact, load bearing product designed for packing and levelling of objects
- WLL of 1.8 tonnes for 45mm length
- WLL of 5.0 tonnes all other lengths

Countersunk hole to fasten into position

Tapered ends for easy insertion

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) | Internal Width (mm) | Internal Length (mm) | Hole Diameter (mm) |
|---|---|---|---|---|---|---|---|---|
| **45MM MIXED TUB - QTY 100 - 5 SIZES** | | | | | | | | |
| AWP5MIX045P | Red | 20 | 1.0 | 47 | 49 | 12 | 36 | N/A |
| | Light Blue | 30 | 2.0 | 47 | 49 | 12 | 36 | N/A |
| | Yellow | 25 | 3.0 | 47 | 47 | 12 | 35 | N/A |
| | Orange | 15 | 5.0 | 47 | 47 | 12 | 35 | N/A |
| | Black | 10 | 10.0 | 47 | 47 | 12 | 35 | N/A |

# WINDOW PACKERS

## RANGE

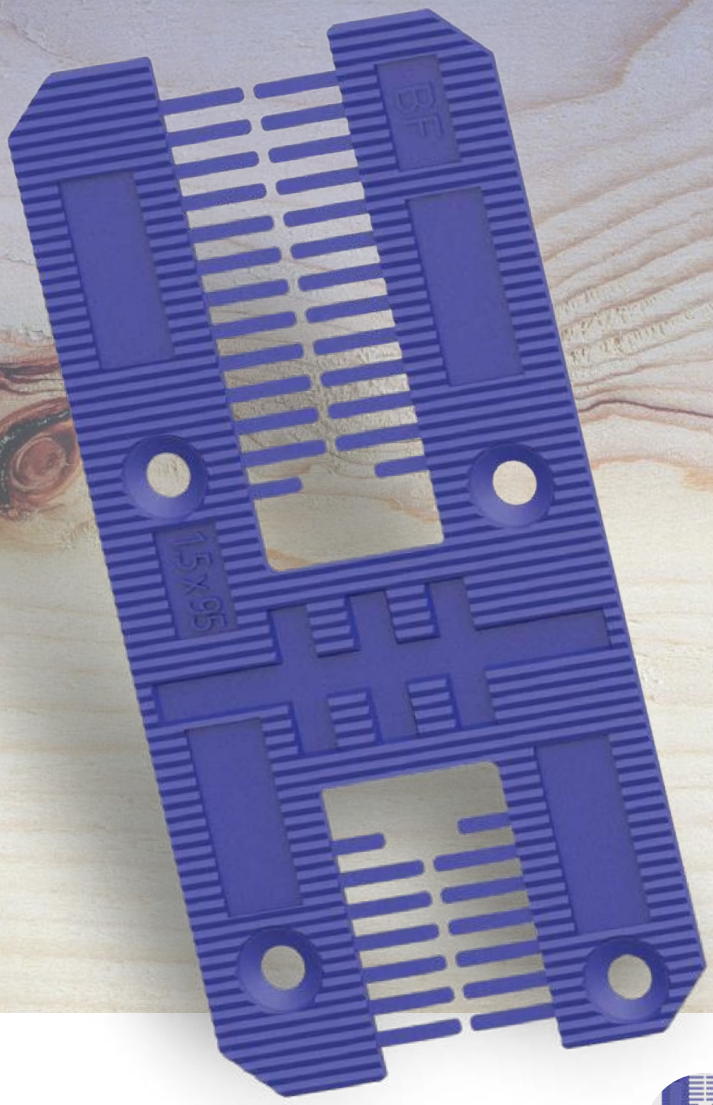
| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) | Slot Width (mm) | Slot Length (mm) | Hole Diameter (mm) |
|---|---|---|---|---|---|---|---|---|
| **75MM CLAM SHELL** | | | | | | | | |
| AWPR0100752M | Red | 25 | 1.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPB0150752M | Blue | 25 | 1.5 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPG0320752M | Green | 25 | 3.2 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPO0500752M | Orange | 25 | 5.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPE0640752M | Grey | 25 | 6.4 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPL1000752M | Black | 25 | 10.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPN1500752M | Brown | 15 | 15.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPM2000752M | Maroon | 12 | 20.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| **75MM PLASTIC TUB** | | | | | | | | |
| AWPR0100752P | Red | 600 | 1.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPB0150752P | Blue | 500 | 1.5 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPG0320752P | Green | 250 | 3.2 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPO0500752P | Orange | 150 | 5.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPE0640752P | Grey | 100 | 6.4 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPL1000752P | Black | 70 | 10.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPN1500752P | Brown | 60 | 15.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| AWPM2000752P | Maroon | 40 | 20.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| **75MM CLAM SHELL – PACK QTY 20 – 4 SIZES** | | | | | | | | |
| AWP4MIX0752M | Blue | 5 | 1.5 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Green | 5 | 3.2 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Orange | 5 | 5.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Black | 5 | 10.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| **75MM MIXED TUB – PACK QTY 90 – 5 SIZES** | | | | | | | | |
| AWP5MIX0752P | Blue | 18 | 1.5 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Green | 18 | 3.2 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Orange | 18 | 5.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Grey | 18 | 6.4 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Black | 18 | 10.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| **75MM MIXED TUB – PACK QTY 600 – 6 SIZES** | | | | | | | | |
| AWP6MIX075D | Red | 130 | 1.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Blue | 150 | 1.5 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Green | 120 | 3.2 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Orange | 100 | 5.0 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Grey | 40 | 6.4 | 36 | 75 | 12.3 | 55 | 4.3 |
| | Black | 60 | 10.0 | 36 | 75 | 12.3 | 55 | 4.3 |

# WINDOW PACKERS

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) | Slot Width (mm) | Slot Length (mm) | Hole Diameter (mm) |
|---|---|---|---|---|---|---|---|---|
| **90MM PLASTIC TUB** | | | | | | | | |
| AWPR0100902P | Red | 500 | 1.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPB0150902P | Blue | 420 | 1.5 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPG0320902P | Green | 200 | 3.2 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPO0500902P | Orange | 120 | 5.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPE0640902P | Grey | 80 | 6.4 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPL1000902P | Black | 60 | 10.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPN1500902P | Brown | 50 | 15.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| AWPM2000902P | Maroon | 30 | 20.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| **90MM MIXED TUB – PACK QTY 90 - 5 SIZES** | | | | | | | | |
| AWP5MIX0902P | Blue | 20 | 1.5 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Green | 20 | 3.2 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Orange | 20 | 5.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Grey | 10 | 6.4 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Black | 20 | 10.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| **90MM MIXED TUB – PACK QTY 300 - 6 SIZES** | | | | | | | | |
| AWP6MIX090D | Red | 65 | 1.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Blue | 75 | 1.5 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Green | 60 | 3.2 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Orange | 50 | 5.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Grey | 20 | 6.4 | 36 | 90 | 12.3 | 70 | 4.3 |
| | Black | 30 | 10.0 | 36 | 90 | 12.3 | 70 | 4.3 |
| **140MM MIXED TUB – PACK QTY 100 - 4 SIZES** | | | | | | | | |
| AWP4MIX1402P | Red | 25 | 1.0 | 38 | 140 | 13.3 | 110 | 4.3 |
| | Light Blue | 25 | 2.0 | 38 | 140 | 13.3 | 110 | 4.3 |
| | Orange | 25 | 5.0 | 38 | 140 | 13.3 | 110 | 4.3 |
| | Black | 25 | 10.0 | 38 | 140 | 13.3 | 110 | 4.3 |

# IQ PACKER



## Features & Benefits

- This unique design allows the packer to be separated into various configurations for ultimate versatility
- Anti-slip ridges prevent multi-layer packers from sliding
- Available in 95mm lengths and thickness ranging from 1.5mm to 10mm

## Application / Trades

- Patented, intelligent window packer with the flexibility to adapt for all types of applications

Unique design allows the packer to be separated into various configurations

Anti slip ridges prevents multi layer packers from sliding out of place

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) | Slot Width (mm) | Slot Length (mm) | Hole Diameter (mm) |
|---|---|---|---|---|---|---|---|---|
| **IQ WINDOW PACKER - 95MM MIXED TUB – PACK QTY 360 - 5 SIZES** | | | | | | | | |
| AWPIQ5M095D | Blue | 140 | 1.5 | 36 | 95 | 12.3 | 55 | 4.3 |
| | Green | 85 | 3.2 | 36 | 95 | 12.3 | 55 | 4.3 |
| | Orange | 70 | 5.0 | 36 | 95 | 12.3 | 55 | 4.3 |
| | Grey | 25 | 6.4 | 36 | 95 | 12.3 | 55 | 4.3 |
| | Black | 40 | 10.0 | 36 | 95 | 12.3 | 55 | 4.3 |

# PANEL SHIM
## FULL & HALF


### Features & Benefits

- Available in either Full (100mm x 150mm) or Half (100mm x 75mm) sizes
- Manufactured from high quality plastic
- Shim in 7 sizes ranging from 1mm to 20mm thick – color coded for convenience
- Complies with AS3850.1 2015 (+A1 2019)

### Application / Trades

- Heavy duty, structural packing where a load rated shim is required.
- Rated to a WLL of 20 tonne – suitable for use in packing precast & tilt-up concrete panels.


Size and working load limit markings

Ribbed profile prevents slippage

## RANGE

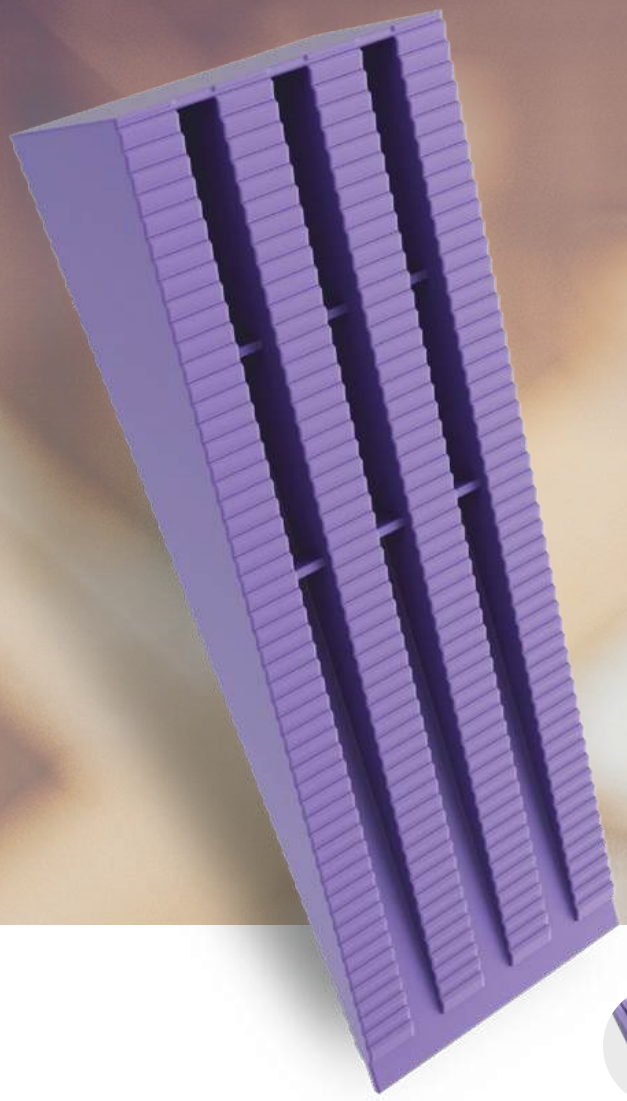
| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) |
|---|---|---|---|---|---|
| **FULL SHIM** | | | | | |
| APSFR011502 | Red | 144 | 1 | 100 | 150 |
| APSFU021502 | Light Blue | 80 | 2 | 100 | 150 |
| APSFY031502 | Yellow | 60 | 3 | 100 | 150 |
| APSFO051502 | Orange | 40 | 5 | 100 | 150 |
| APSFL101502 | Black | 20 | 10 | 100 | 150 |
| APSFN151502 | Brown | 12 | 15 | 100 | 150 |
| APSFM201502 | Maroon | 10 | 20 | 100 | 150 |

# PANEL SHIM
## FULL & HALF

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) | Width (mm) | Length (mm) |
|---|---|---|---|---|---|
| **FULL SHIM – MIXED TUB – PACK QTY 25 – 7 SIZES** | | | | | |
| APSF7MX1502 | Red | 2 | 1 | 100 | 150 |
| | Light Blue | 2 | 2 | 100 | 150 |
| | Yellow | 2 | 3 | 100 | 150 |
| | Orange | 4 | 5 | 100 | 150 |
| | Black | 6 | 10 | 100 | 150 |
| | Brown | 3 | 15 | 100 | 150 |
| | Maroon | 6 | 20 | 100 | 150 |
| **HALF SHIM** | | | | | |
| APSHR010752 | Red | 280 | 1 | 100 | 75 |
| APSHU020752 | Light Blue | 176 | 2 | 100 | 75 |
| APSHY030752 | Yellow | 120 | 3 | 100 | 75 |
| APSHO050752 | Orange | 80 | 5 | 100 | 75 |
| APSHL100752 | Black | 40 | 10 | 100 | 75 |
| APSHN150752 | Brown | 24 | 15 | 100 | 75 |
| APSHM200752 | Maroon | 20 | 20 | 100 | 75 |
| **HALF SHIM - MIXED TUB – PACK QTY 50 – 7 SIZES** | | | | | |
| APSH7MX0752 | Red | 4 | 1 | 100 | 75 |
| | Light Blue | 4 | 2 | 100 | 75 |
| | Yellow | 4 | 3 | 100 | 75 |
| | Orange | 8 | 5 | 100 | 75 |
| | Black | 12 | 10 | 100 | 75 |
| | Brown | 6 | 15 | 100 | 75 |
| | Maroon | 12 | 20 | 100 | 75 |

# BUILDERS WEDGE



## Features & Benefits

- Triangular section wedge, made of high impact, load bearing plastic
- The ribbed profile design provides a non-slip surface
- Combine two wedges for increased versatility
- Wedge in 5 sizes ranging from 10mm to 22mm thick, colour coded for convenience

## Application / Trades

- Ideal for securing and levelling items
- Levelling and squaring off window and door frames

High impact load bearing

Ribbed surface enables the stacking of wedges

## RANGE

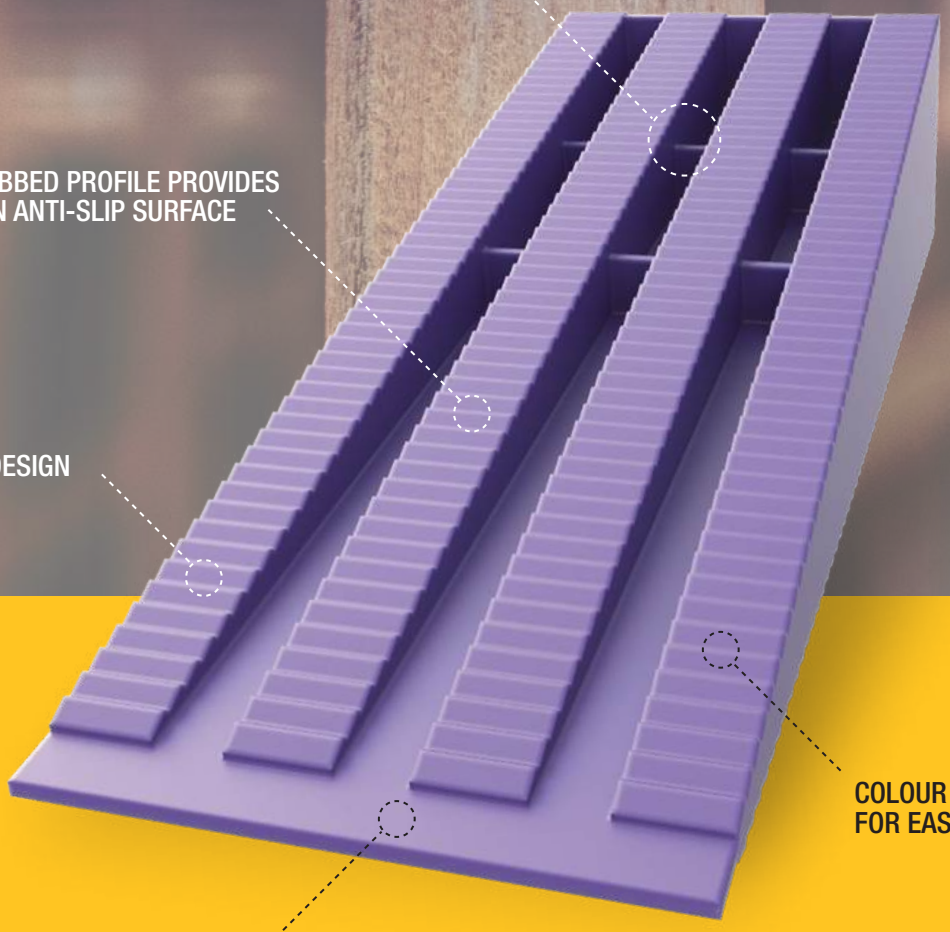
| Product Code | Colour | Pack Quantity | Thickness (mm) |
|---|---|---|---|
| **BUILDERS WEDGE** | | | |
| ABWSL10000P | Black - Slotted | 50 | 10 |
| ABWFL10000P | Black | 50 | 10 |
| ABWFN15000P | Brown | 30 | 15 |
| ABWFM20000P | Maroon | 20 | 20 |
| ABWFP22000P | Purple | 15 | 22 |

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) |
|---|---|---|---|
| **MIXED TUB – PACK QTY 40 – 5 SIZES** | | | |
| ABW5MIX000P | Black - Slotted | 10 | 10 |
| | Black | 10 | 10 |
| | Brown | 10 | 15 |
| | Maroon | 5 | 20 |
| | Purple | 5 | 22 |

# HIGH IMPACT LOAD BEARING

Bremick Wedges, manufactured from high quality polypropylene material, are designed for packing and levelling off objects. The ribbed profile design provides a non slip surface and also allows for two wedges to be used to create an interlocking block that can be increased and decreased in height.



# T SHAPE SPACER


## Features & Benefits

- Manufactured from high quality polypropylene to ensure strength and longevity
- Spacing options of 3mm, 4mm or 5mm available, color coded for convenience

## Application / Trades

- T-Shaped Deck Board Spacers are designed to provide consistent and uniformed spacing between deck boards during installation. Gaps between deck boards are required to provide ventilation and to accommodate deck board movement.
- T-Shaped Deck Board Spacers provide quick and easy installation of softwood, hardwood and composite decking.



Unique head design for easy removal

Enlarged base for greater stability

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) |
|---|---|---|---|
| ADSTY03000M | Yellow | 25 | 3 |
| ADSTY03000P | Yellow | 100 | 3 |
| ADSTI04000M | Lime Green | 25 | 4 |
| ADSTI04000P | Lime Green | 100 | 4 |
| ADSTO05000M | Orange | 15 | 5 |
| ADSTO05000P | Orange | 50 | 5 |

# MULTI SPACER

## Features & Benefits

- Offers four spacing options in one product for greater versatility and reusability
- Manufactured from high quality polypropylene to ensure strength and longevity
- Each unit provides spacing options of 3mm, 4mm, 5mm & 6mm

## Application / Trades

- Multi Deck Board Spacers provide quick and easy installation of softwood, hardwood and composite decking
- Designed to provide consistent and uniformed spacing between deck boards during installation

Ribbed body for sturdy design

Multi sized sections provides versatility

## RANGE

| Product Code | Colour | Pack Quantity | Thickness (mm) |
|---|---|---|---|
| ADSMO03060M | Orange | 4 | 3/4/5/6 |
| ADSMO03060P | Orange | 15 | 3/4/5/6 |

# IMPORTANT DISCLAIMER:

## NCC COMPLIANT – PRODUCTS

Product performance information contained herein is based on ETA certificate data and AS 5216:2021 inputs as appropriate. It is limited to the simple scope noted within the data tables and is provided to enable a comparison to be made within and across product ranges. The design of an anchoring solution for a specific application should be conducted by an appropriately qualified design professional. Please contact Bremick to enable an anchoring solution to be optimised for your particular anchoring application.

## NON SAFETY CRITICAL – PRODUCTS

Capacity information is limited to the simple scope noted within the data tables and is provided to enable a comparison to be made within and across product ranges. Please contact Bremick to enable an anchoring solution to be optimised for your particular anchoring application.

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