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.

60

YEAR ANNIVERSARY

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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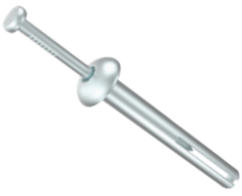
SPLIT DRIVE ANCHOR



156
METAL PIN ANCHOR

158
SHIELD ANCHOR

COMPREHENSIVE OFFER
COMPREHENSIVE SUPPORT

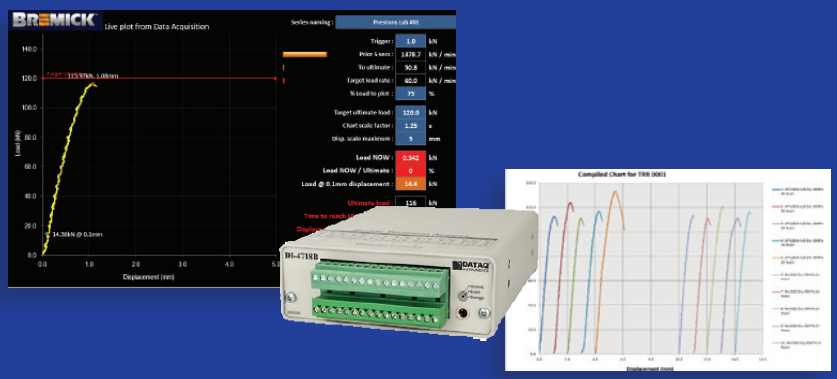
Modern, concise product range & performance information

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

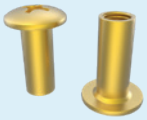
Sleeve Anchor Post Head Countersunk
6.5mm –10mm

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

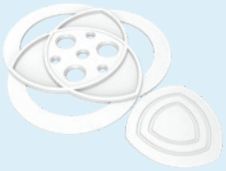
Kew Heavy Duty Nylon Anchor Countersunk Head

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

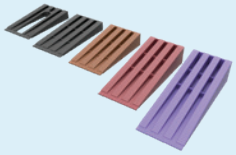
1mm – 20mm

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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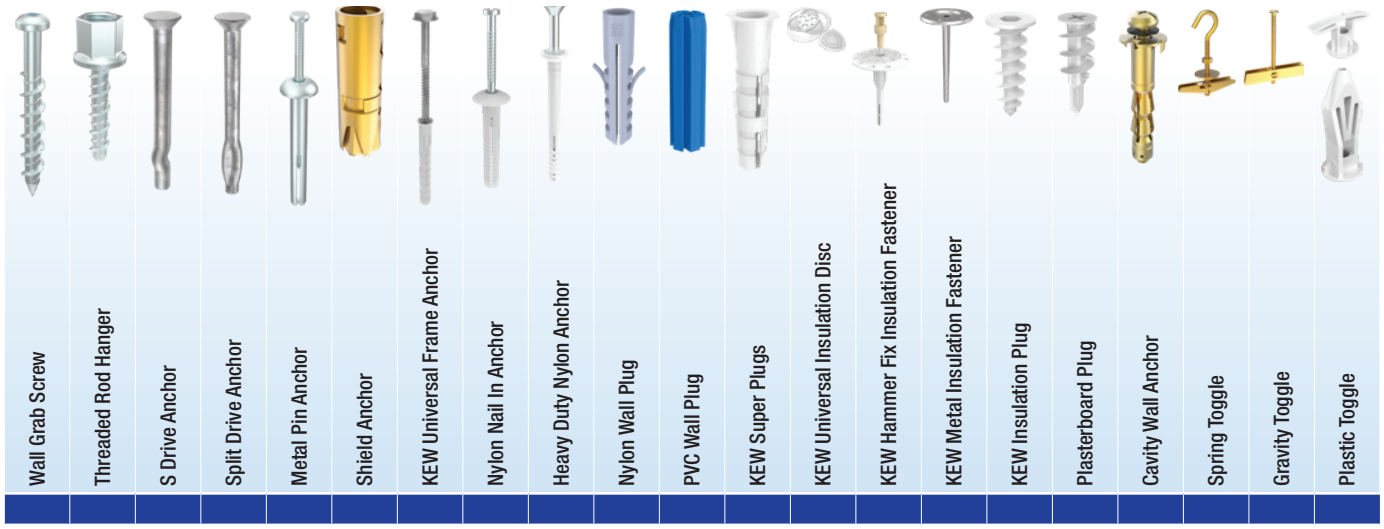
* Refer to individual Product Technical Data Sheet for the line specific approval levels.



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.

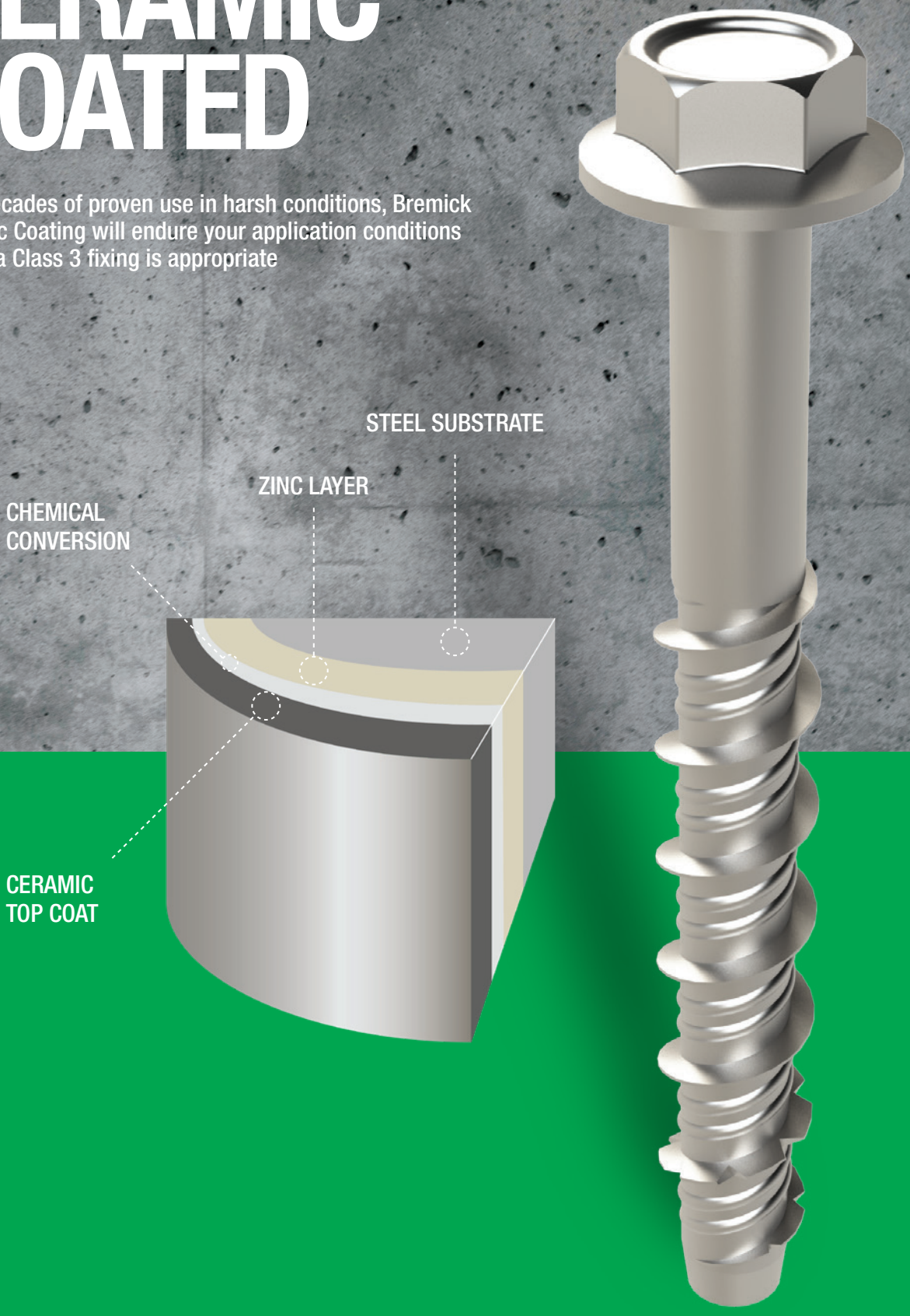
NOTE: Galvanising is a general term that should not be used without further reference i.e. mechanical galvanising or hot dipped galvanising.

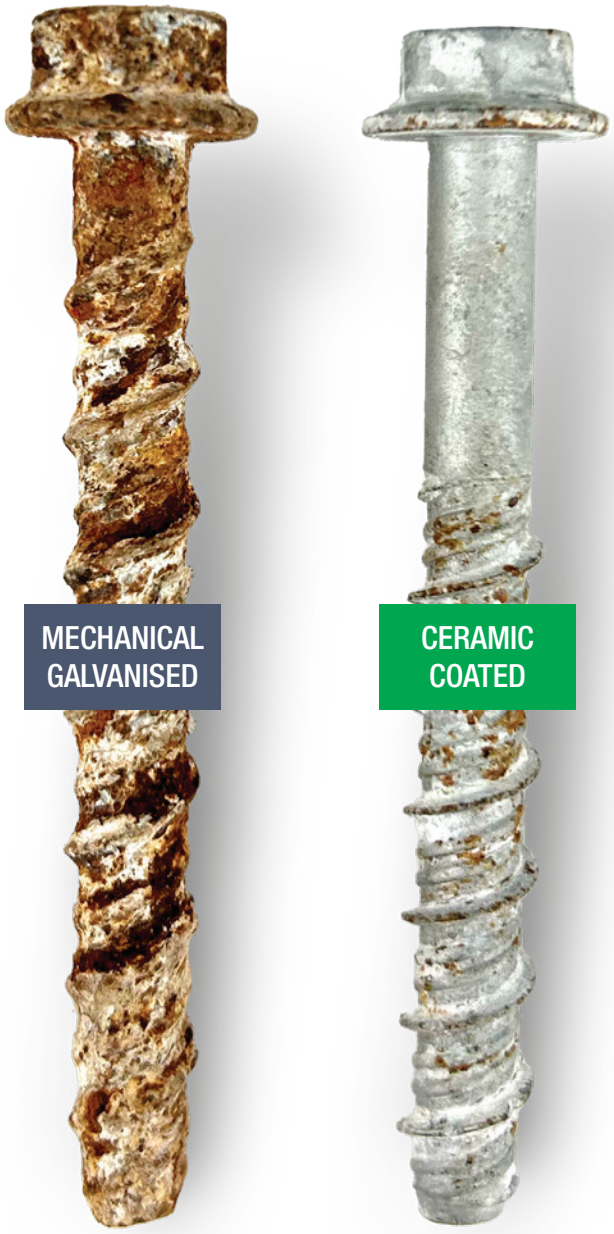
OVERVIEW	CORROSION RESISTANCE	
Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	–	PLAIN
Bremick Zinc Plated Coating provides a low level of corrosion protection and is recommended 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?

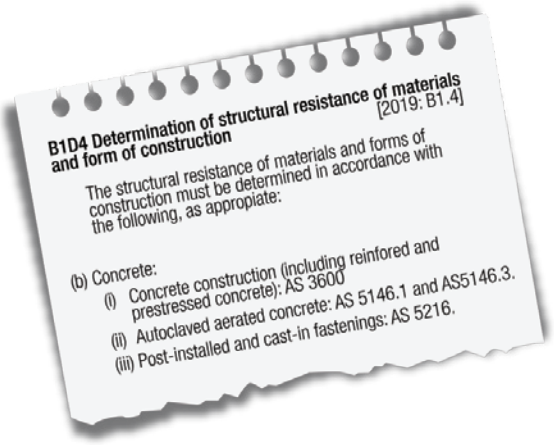
AS 5216:2021 is the Australian Standard for the design of post-installed and cast-in anchors in concrete that applies to safety critical applications.

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

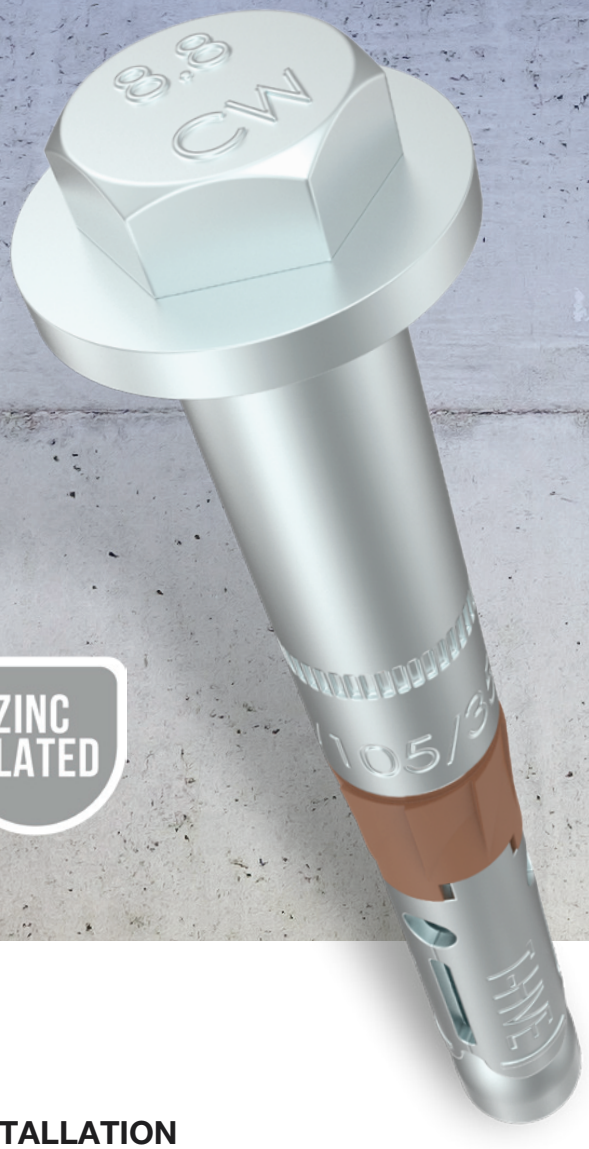
	Product Type		Material/ Coating	Size Range
SAFETY ANCHOR	Hex Head		Zinc Plated	M6 – M16
	Countersunk Head		Zinc Plated	M6 – M12
SCREW ANCHOR	Flange Hex Head		Zinc Plated	6mm – 12mm
	Flange Hex Head		Ceramic Coated	6mm – 12mm
	Flange Hex Head		BiMetal 316	6mm – 8mm
	Flange Hex Head		BiMetal 316	8mm – 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

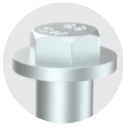


Features & Benefits

- 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

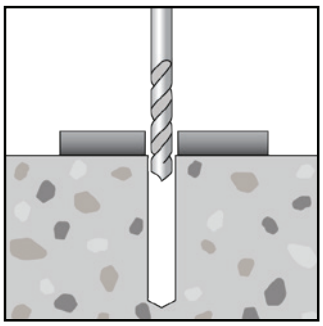
- Structural steel connection to concrete
- Crane rails
- Elevator guide rails
- Machinery hold down
- Plant room equipment hold down



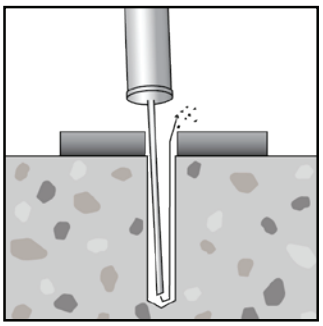
Large Ø structural washer for optimal load transfer

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

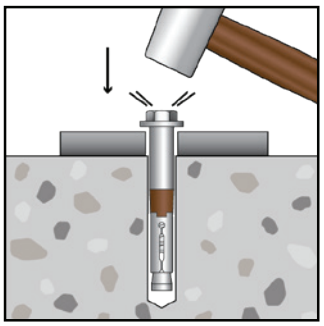
INSTALLATION



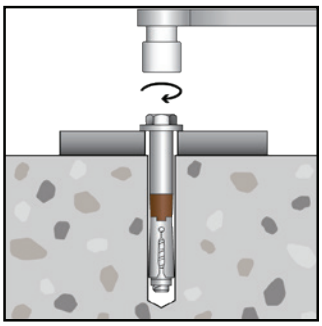
Drill hole through fixture into substrate to the specified diameter and depth.



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) 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
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

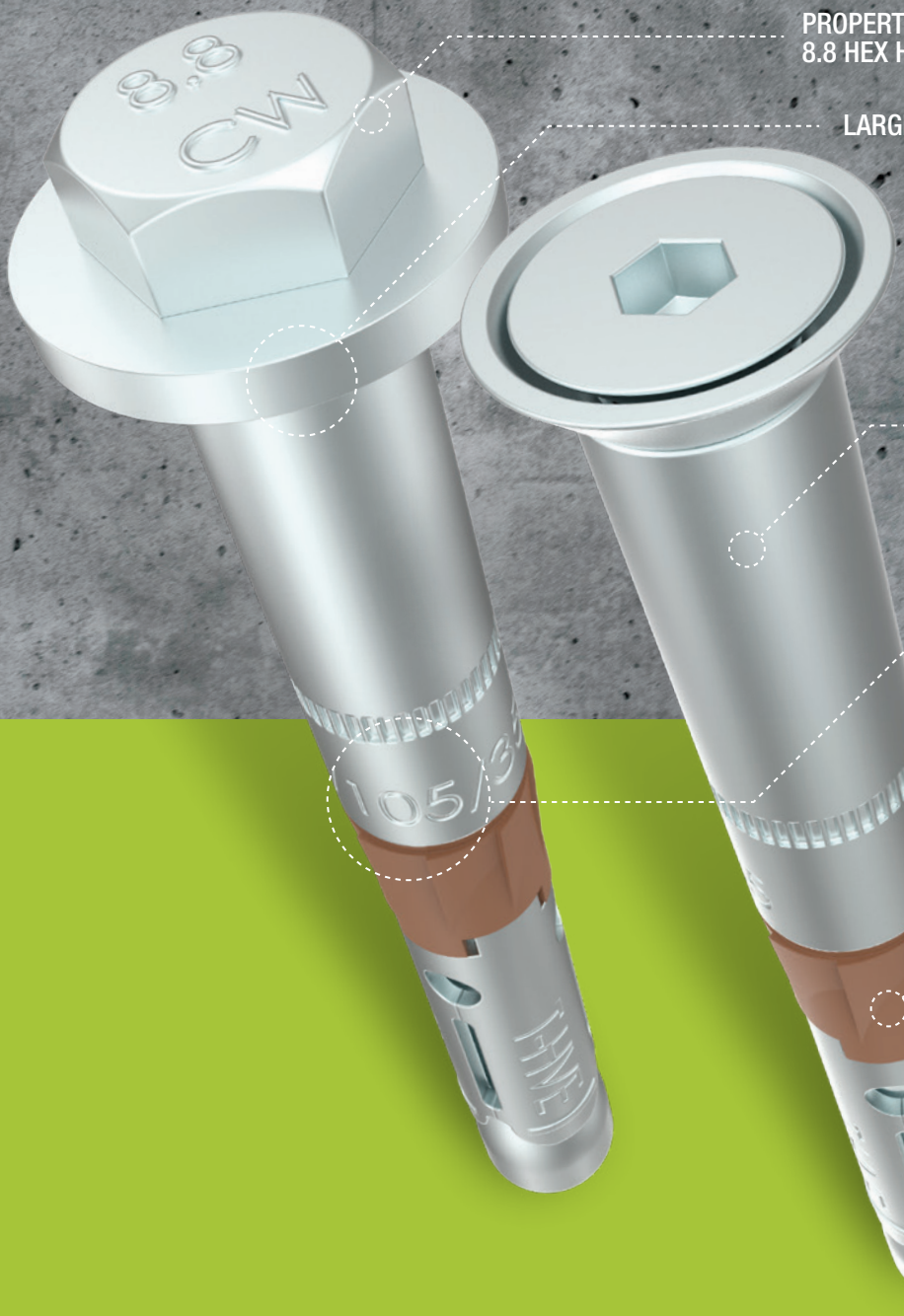
Product Code	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth @ $t_{fix, max}$ (mm)	Minimum embedment depth (mm)	Socket size AF (mm)	Installation torque (Nm)	Design capacities	
							Uncracked concrete - tension (kN)	Uncracked concrete - shear (kN)
	l_t	$t_{fix, max}$	h_1	h_{nom}	SW	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

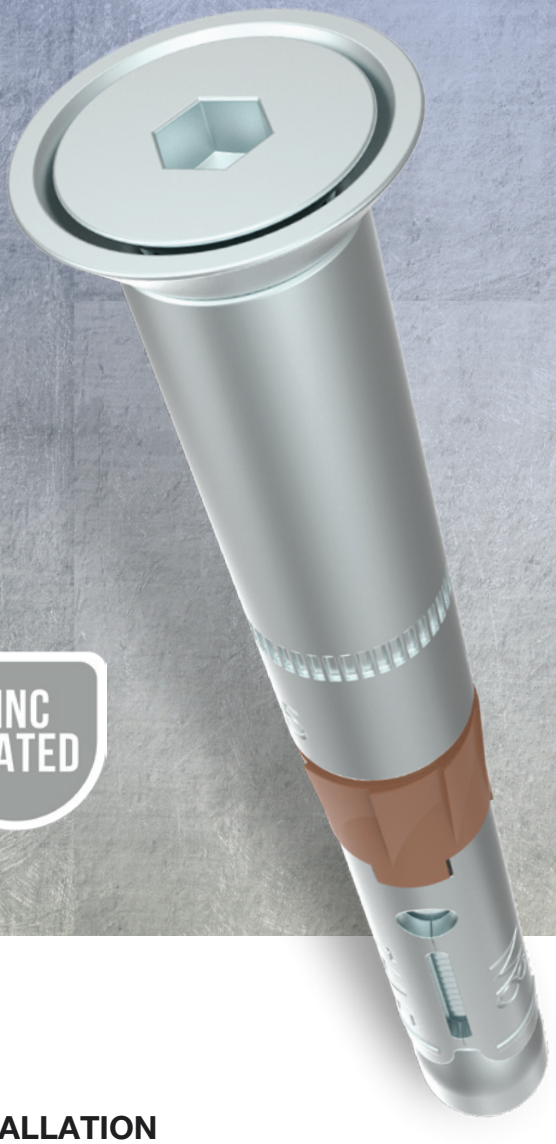
ETA

C1 C2 SEISMIC FIXING

FIRE RATED

NCC COMPLIANT

SAFETY ANCHOR
COUNTERSUNK HEAD



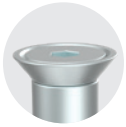
ZINC PLATED

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

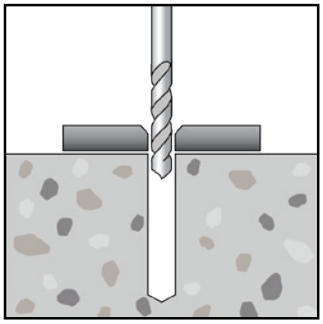
- Structural steel connection to concrete
- Crane rails
- Elevator guide rails
- Machinery hold down
- Plant room equipment hold down



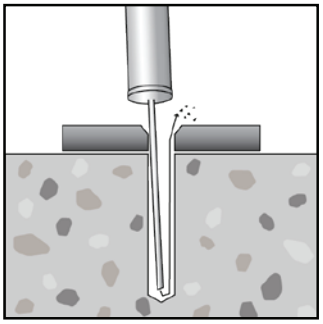
Countersunk head is ideal for public access spaces

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

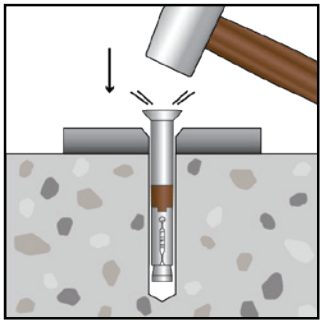
INSTALLATION



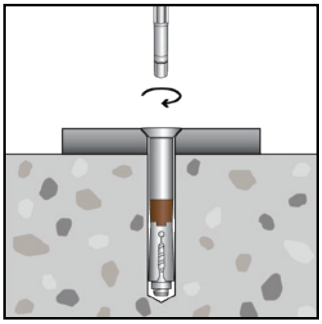
Drill hole through fixture into substrate to the specified diameter and depth.



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)	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
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)	Maximum fixture thickness (mm)	Drill hole depth @ $t_{fix,\ max}$ (mm)	Minimum embedment depth (mm)	Hex Allen key 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}	H	T_{inst}	N_{Rd}	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

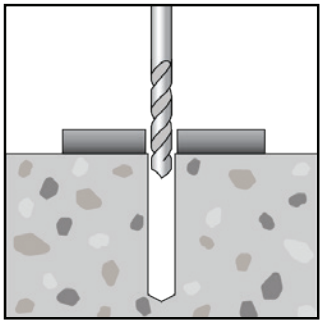
Application / Trades

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

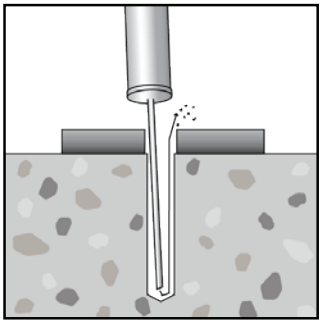
High tensile steel for superior strength

Triple Hi-Lo thread for improved tensile performance

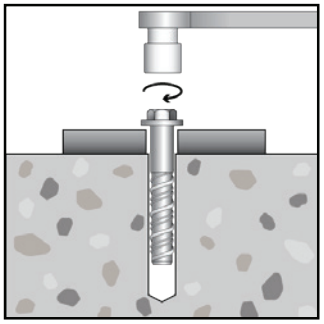
INSTALLATION



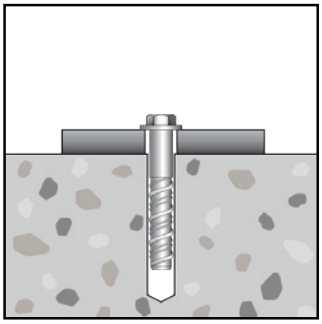
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

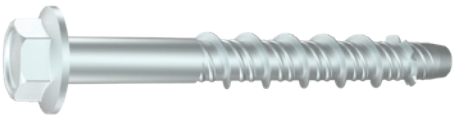


Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



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

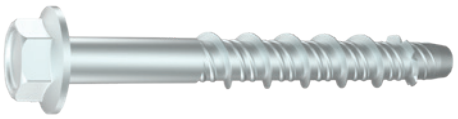
Product Code	Pack Qty	ETA Certification level	Anchor length (mm)	Drill hole Ø (mm)	Drill hole depth** @ $t_{fix,\ max}$ (mm)	Minimum concrete thickness** (mm)	Maximum fixture thickness** (mm)	Fixture clearance hole Ø (mm)
			l_t	d_0	h_1	h_{min}	$t_{fix,\ max}$	d_f
ASBMZ06045ETA	100	Seismic C1	45	6	50	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

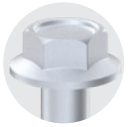
CERAMIC COATED

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

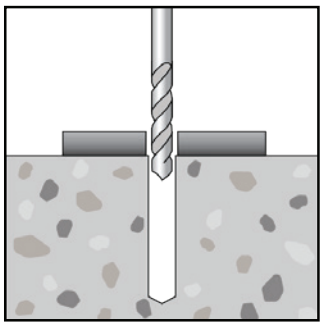
- Timber bottom plate hold down
- Warehouse racking
- Hand rails
- Steel framing
- Machinery hold down



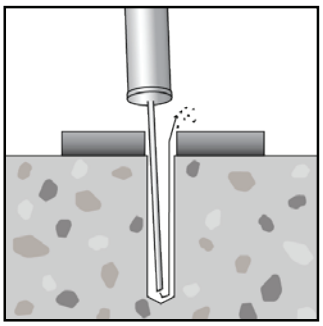
High tensile steel for superior strength

Triple Hi-Lo thread for improved tensile performance

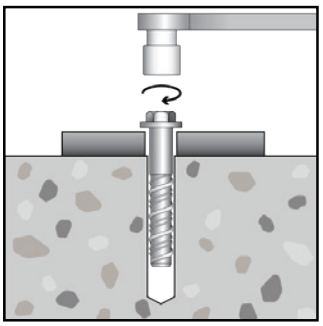
INSTALLATION



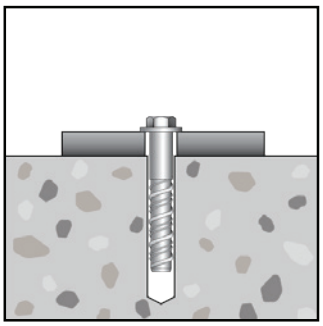
Drill hole through fixture into substrate to the specified diameter and depth.



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.



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

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

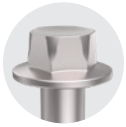
STAINLESS STEEL 316

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

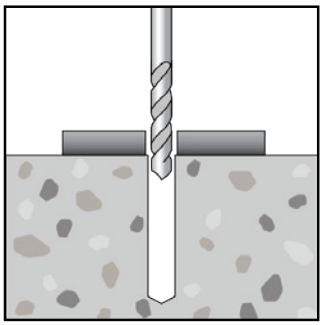
- Balustrading
- Hand rails
- Coastal / marine architectural fixings
- Aluminium framing



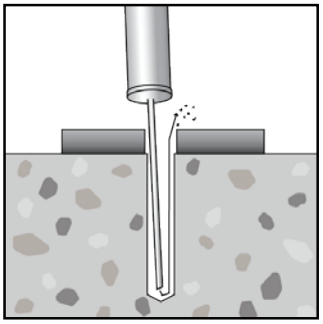
High tensile steel for superior strength

Tapered tip for simpler installation

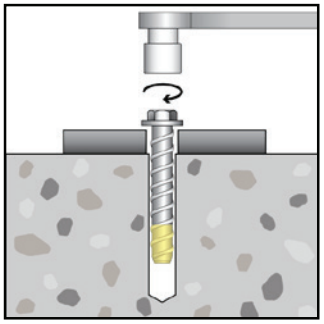
INSTALLATION



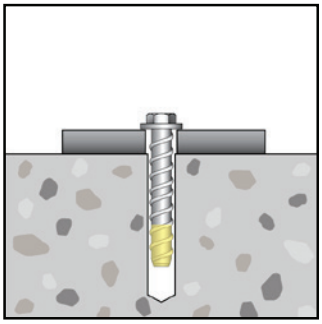
Drill hole through fixture into substrate to the specified diameter and depth.



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.



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

SCREW ANCHOR
FLANGE HEX HEAD

STAINLESS STEEL 316

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
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) l_t	Maximum fixture thickness (mm) $t_{fix,\,max}$	Drill hole depth @ $t_{fix,\,max}$ (mm) h_1	Minimum embedment depth (mm) h_{nom}	Socket size AF (mm) SW	Installation torque (Nm) T_{inst}	Design capacities RNSS Load in any direction, cracked or uncracked concrete** (kN) 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) l_t	Maximum fixture thickness (mm) $t_{fix,\,max}$	Drill hole depth @ $t_{fix,\,max}$ (mm) h_1	Minimum embedment depth (mm) h_{nom}	Socket size AF (mm) SW	Installation torque (Nm) T_{inst}	Design capacities Uncracked concrete - tension (kN) $N_{Rd,\,ucr}$	Uncracked concrete - shear (kN) $V_{Rd,\,ucr}$
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

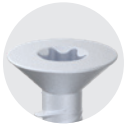
CERAMIC COATED

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

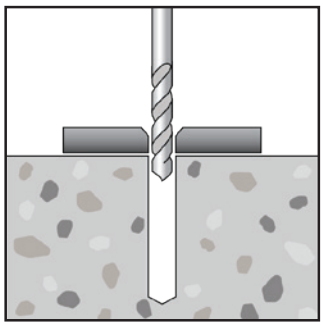
- Public space fixings
- Outdoor public seating
- Hand rails
- Steel framing
- Machinery hold down



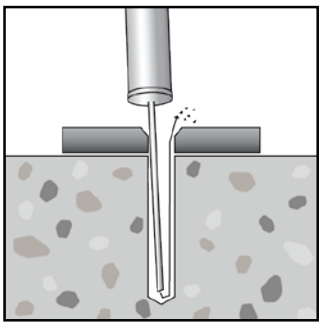
Torx drive for reliable anchor setting

Triple Hi-Lo thread for improved tensile performance

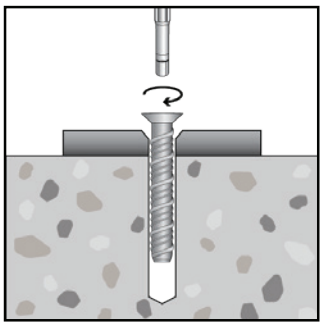
INSTALLATION



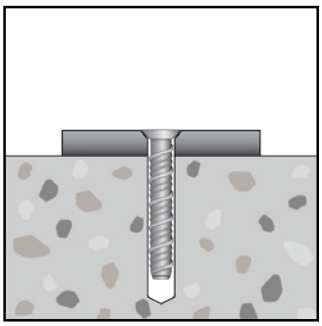
Drill hole through fixture into substrate to the specified diameter and depth.



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

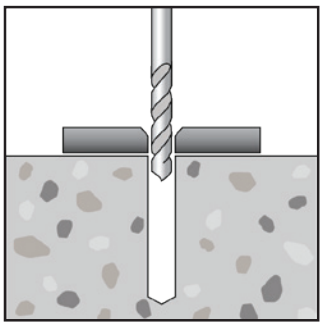
Application / Trades

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

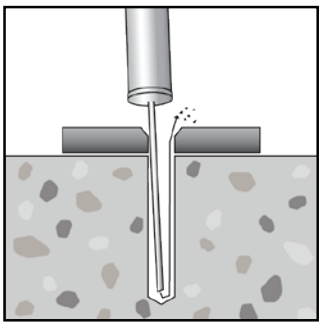
Torx drive for reliable anchor setting

300 series Stainless Steel for ultimate corrosion protection

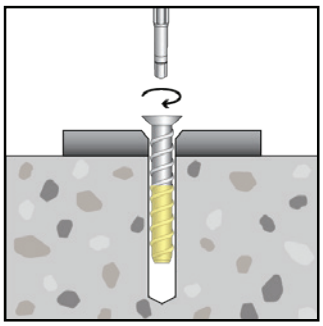
INSTALLATION



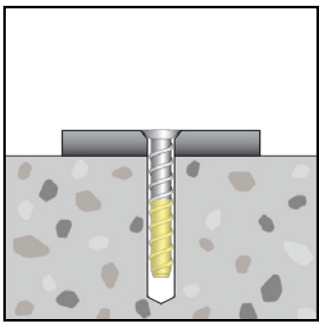
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

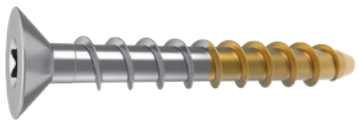


Insert anchor through fixture into drilled hole and screw in using power tool and correctly sized Torx drive bit. Apply constant forward pressure when driving and stop once fixture has clamped to substrate. Do Not Overdrive.



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

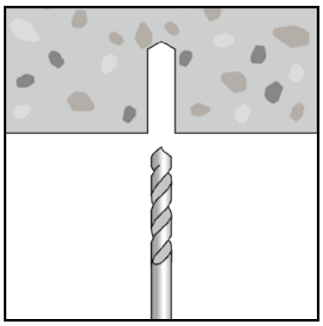
Application / Trades

- HVAC Duct work
- Fire protection
- Cable tray applications

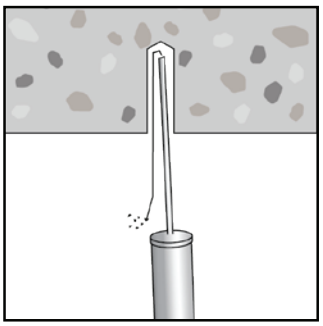
Versatile M8 & M10 Internal Thread

Tapered tip for simpler installation

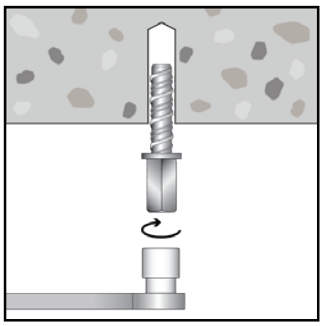
INSTALLATION



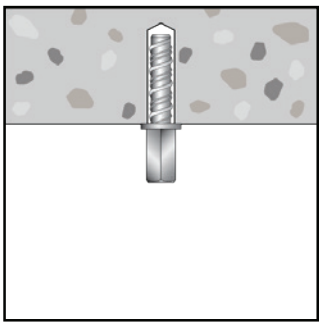
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

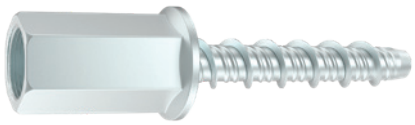


Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten to the specified torque.



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

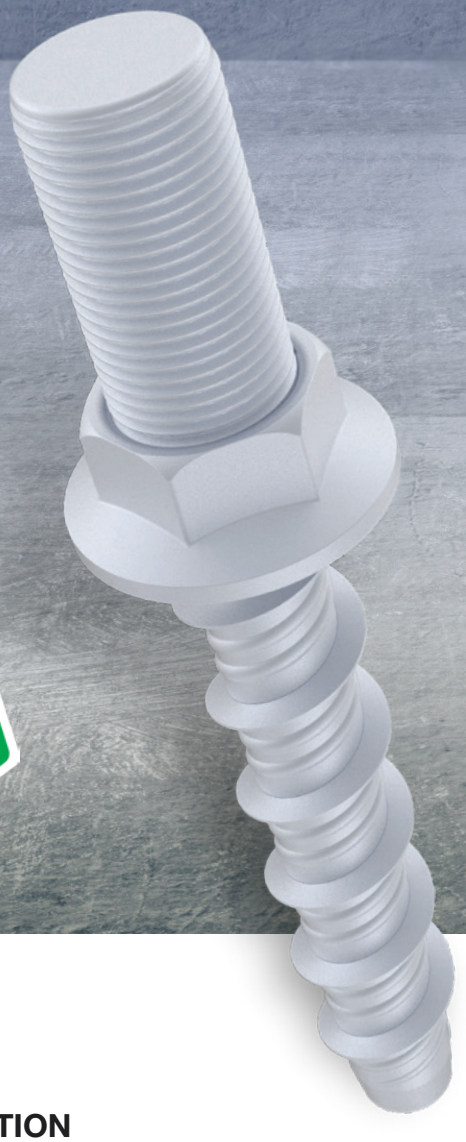
Product Code	Anchor length (mm)	Internal thread size	Drill hole depth (mm)	Minimum embedment depth (mm)	Socket size AF (mm)	Installation torque (Nm)	Design Capacities: Uncracked concrete - tension (kN)	Design Capacities: Uncracked concrete - shear (kN)
	l_t		h_1	h_{nom}	SW	T_{inst}	$N_{Rd, ucr}$	$V_{Rd,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



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

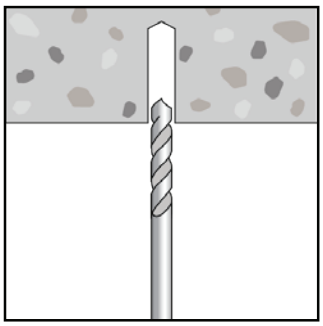
Application / Trades

- HVAC Duct work
- Fire protection
- Cable tray applications

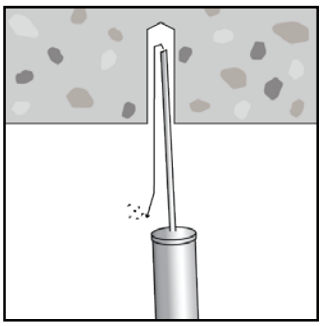
M8 or M10 external thread

Triple Hi-Lo thread for improved tensile performance

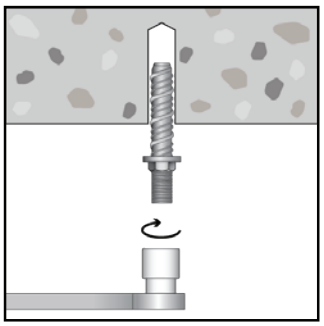
INSTALLATION



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



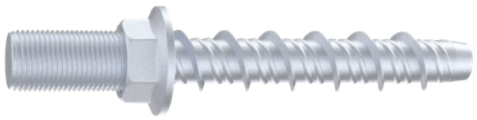
Clear hole of drilling debris.



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

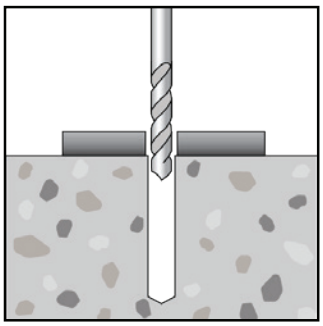
Application / Trades

- Public space fixings
- Signage fixing
- Brackets

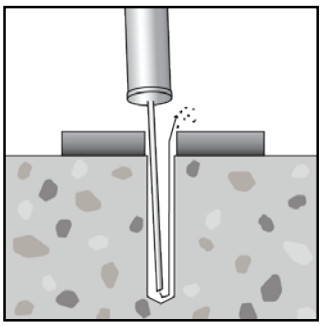
Torx drive for reliable anchor setting

Triple Hi-Lo thread for improved tensile performance

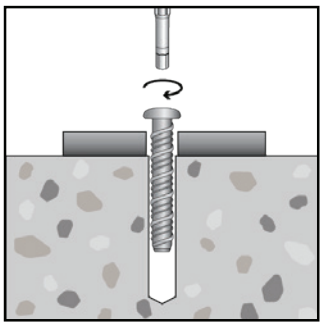
INSTALLATION



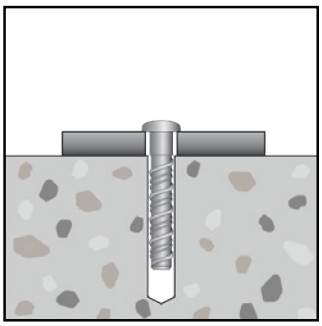
Drill hole through fixture into substrate to the specified diameter and depth.



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).

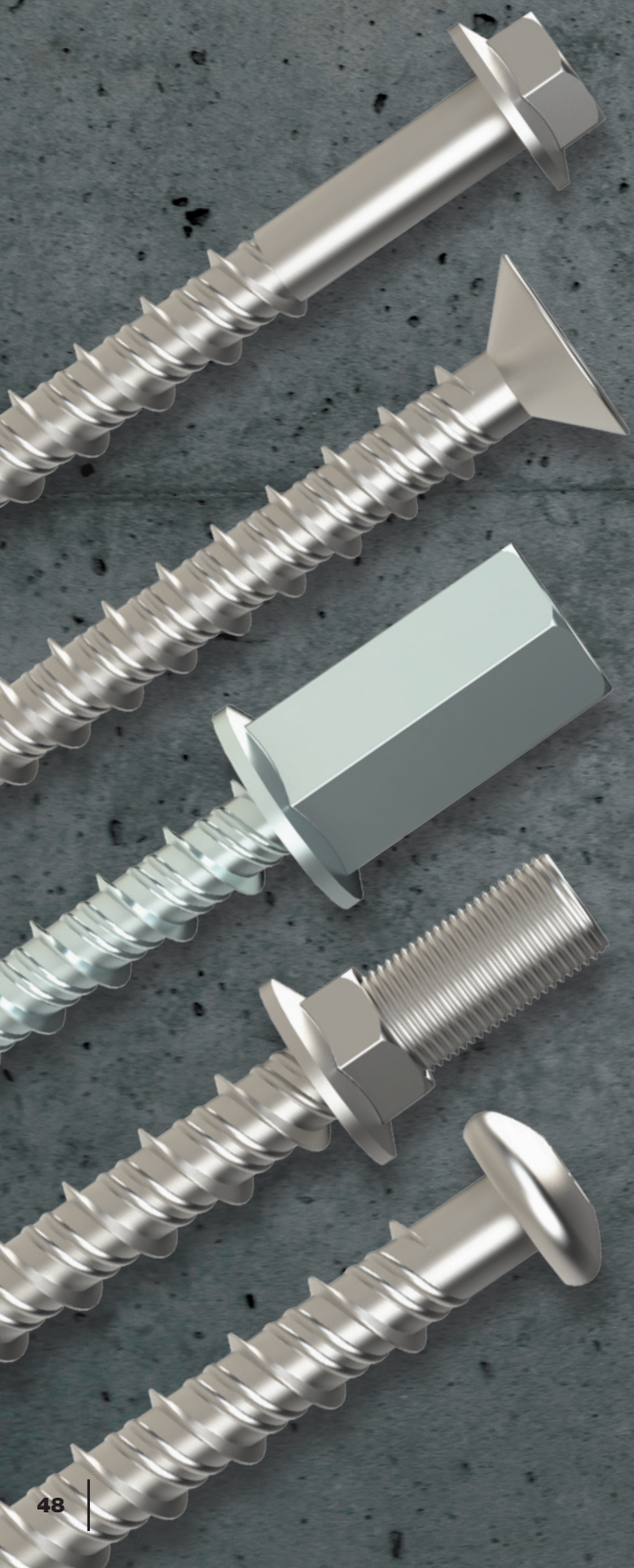
PRODUCT INSTALL & PERFORMANCE INFORMATION

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

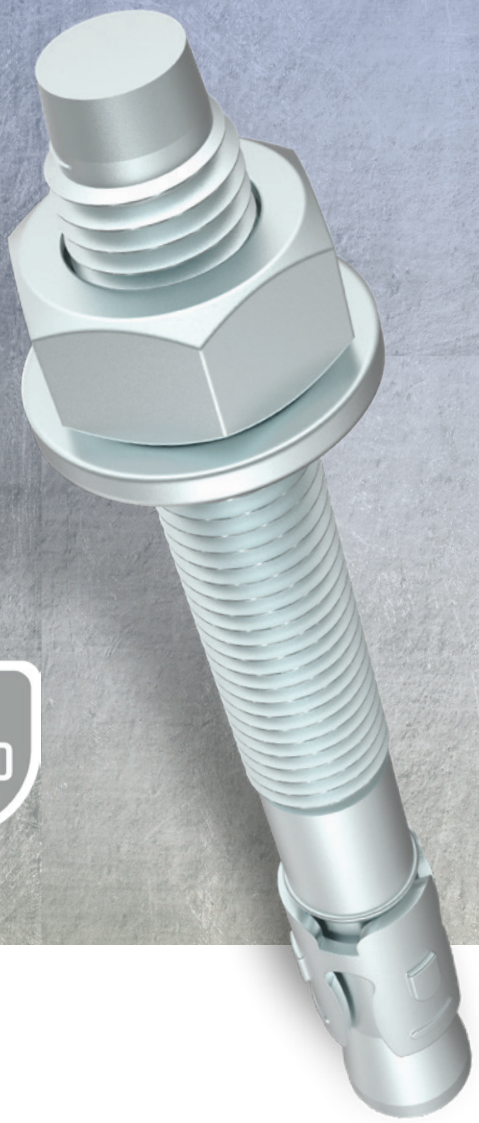
The pan head is ideal for architectural applications, producing a low profile fastener head. Incorporates an internal Torx drive for reliable installation.

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

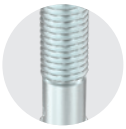
Features & Benefits

- 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

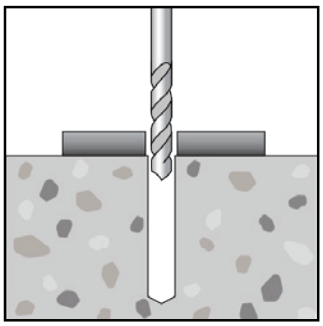
- Structural steel connections to concrete
- Safety barriers
- Formwork restraint
- Bottom plate fixing
- Racking

Chamfered impact face prevents thread damage during installation

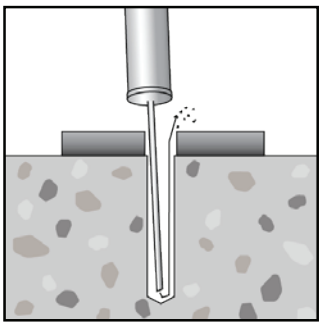


Thread size = hole size, optimising capacity per hole

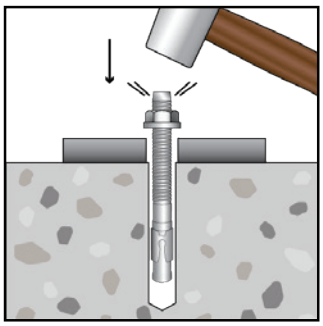
INSTALLATION



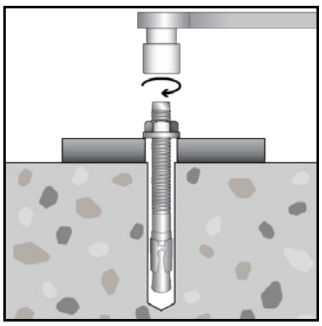
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



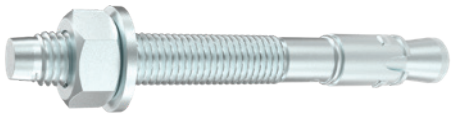
Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



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. 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

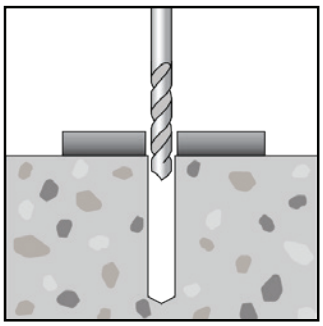
Application / Trades

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

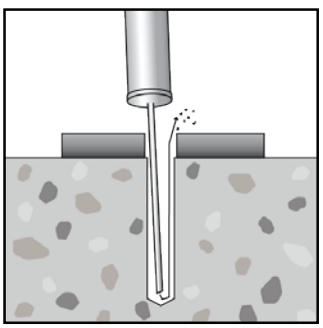
Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

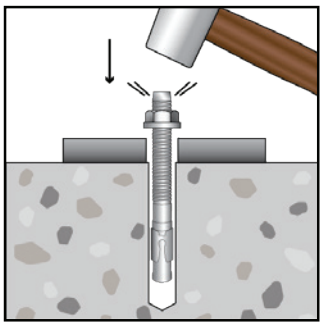
INSTALLATION



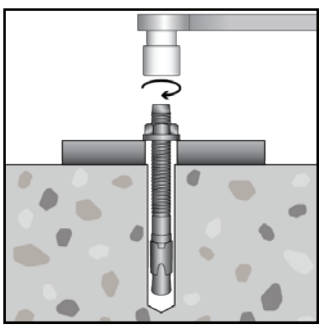
Drill hole through fixture into substrate to the specified diameter and depth.



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

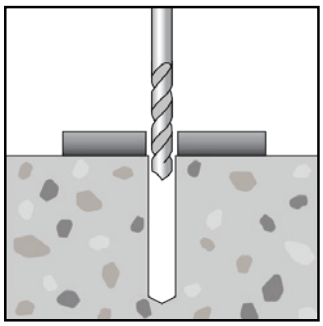
Application / Trades

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

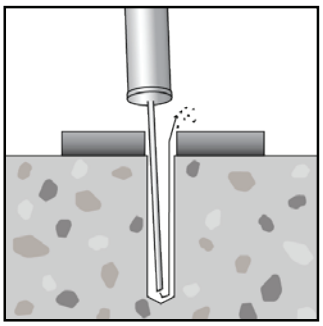
Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

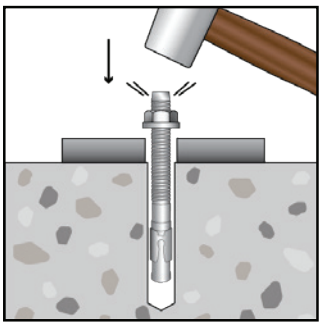
INSTALLATION



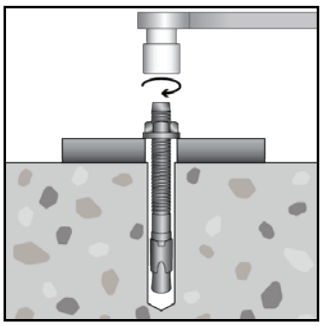
Drill hole through fixture into substrate to the specified diameter and depth.



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

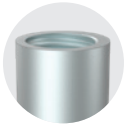
ZINC PLATED

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

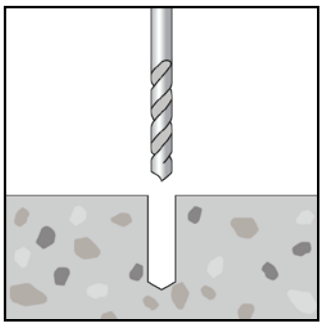
- Suspended services to concrete slab soffit
- The internal ISO metric coarse thread accepts a wide range of bolts and threaded rod
- Leaves no protrusion once fixture removed - ideal for make good in leased space environments
- Balustrade and hand rail base plates



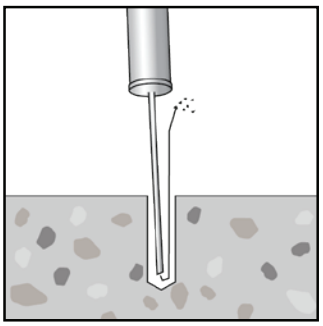
Internal thread accepts a wide range of bolts & threaded rod

Set the internal anchor plug using the correct setting tool

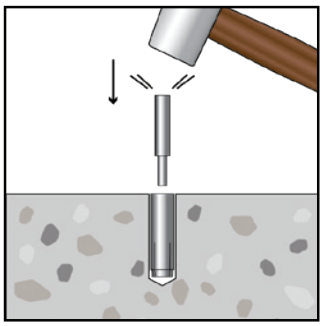
INSTALLATION



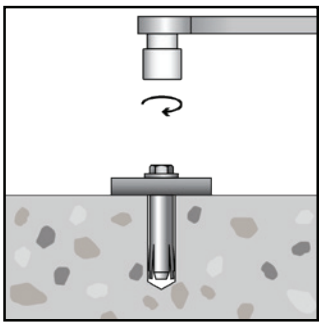
Drill hole into substrate to the specified depth.



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

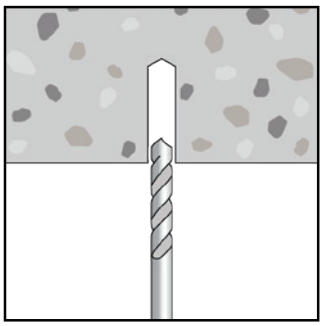
Application / Trades

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

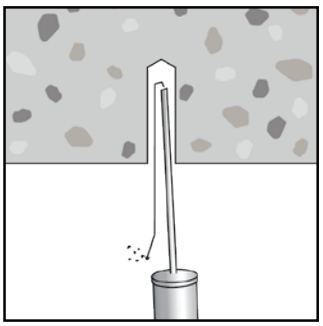
Tamper resistant, large round head firmly secures the fixture

Wedge mechanism expands when hammered

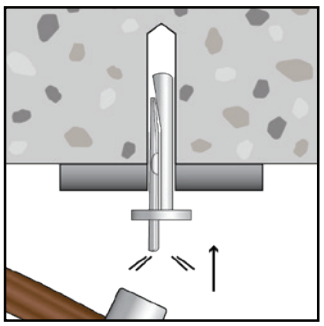
INSTALLATION



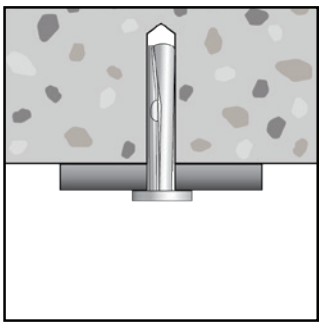
Drill hole into substrate to the specified diameter and depth.



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

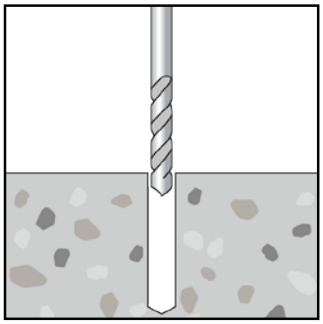
- Fixing to concrete, solid & hollow masonry units
- Timber Framing
- Gates, metal brackets
- Door frames, windows, battens

KEW®

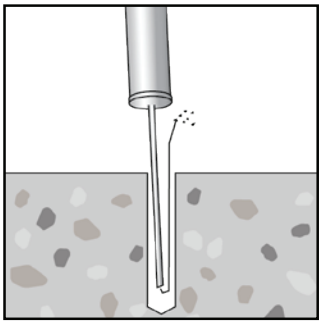
Available in Hex head and countersunk head options

Nylon sleeve provides insulation between fixing screw and substrate

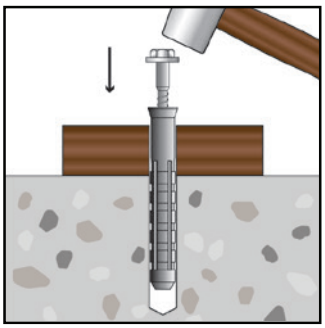
INSTALLATION



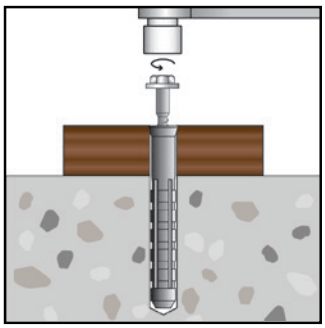
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.

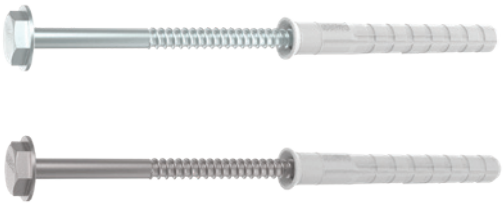


Tap anchor through the fixture into the substrate until all are firmly in contact.



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

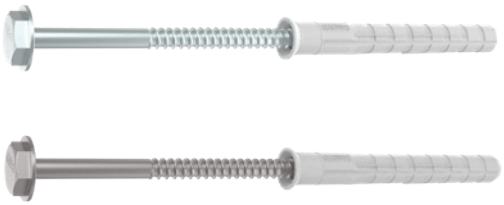
RANGE

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

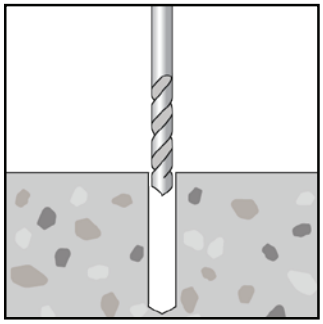
Application / Trades

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

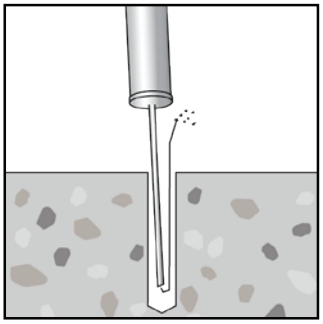
Available in Hex head and Countersunk head options

Nylon sleeve provides insulation between fixing screw and substrate

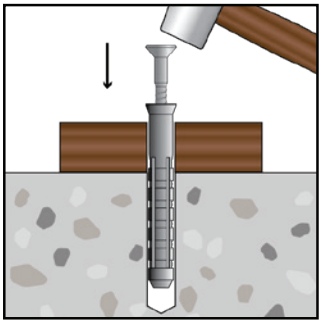
INSTALLATION



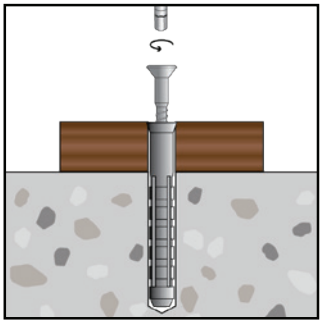
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



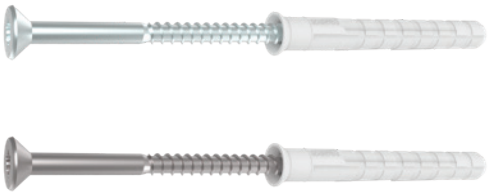
Tap anchor through the fixture into the substrate until all are firmly in contact.



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



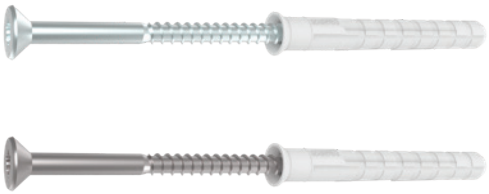
RANGE

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

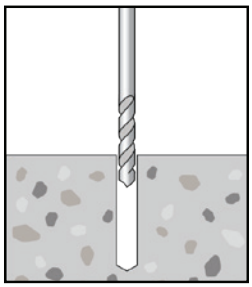
Strength	Extreme
Versatility	9 Stars
Chemical Resistance	9 Stars
Intended Service Life	100 years
Drilled Hole Can Be	Dry / Wet / Flooded
Carbide Drilled	✓
Diamond Cored	✓
Dustless Drilled	✓
Shelf Life	24 Months
Install Temperature	+5°C to +40°C

National Construction Code AS5216 ETA C1 C2 SEISMIC FIXING

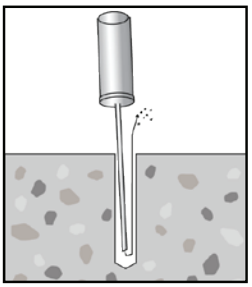
100 YEARS SERVICE LIFE FLOODED HOLE APPROVED FIRE RATED

CHEMICAL INJECTION
PURE EPOXY

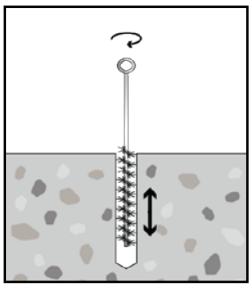
INSTALLATION



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



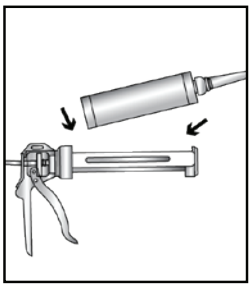
Blow out from the base of the drill hole at least 2 times until removed air is free of noticeable debris. For drill holes up to 18mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



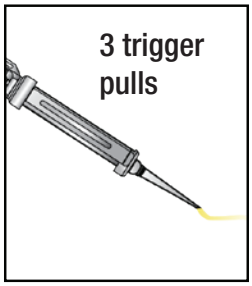
Brush 2 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.

Blow, brush, blow, brush, blow.

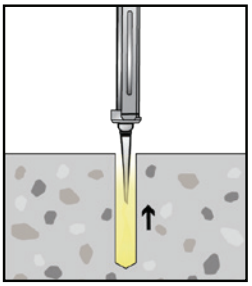
Repeat prior 2 steps for a total of: blow, brush, blow, brush, blow. Protect the hole from contamination until ready to complete the installation. For full details & alternative hole drilling/cleaning methods – please refer to the product ETA document.



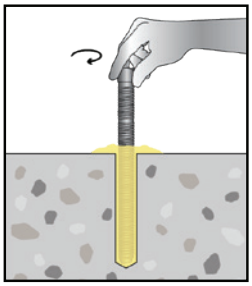
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



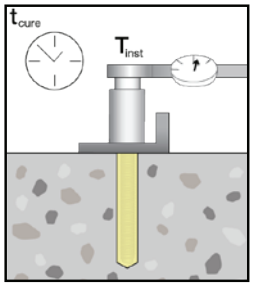
Prior to dispensing into the anchor hole, squeeze out 3 trigger pulls of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



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.
ψ_{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

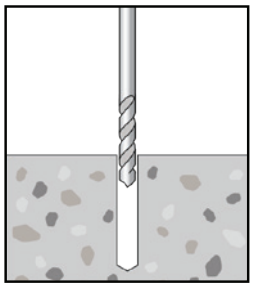
National Construction Code AS5216 ETA OPTION 1 Cracked Concrete

50 YEARS SERVICE LIFE

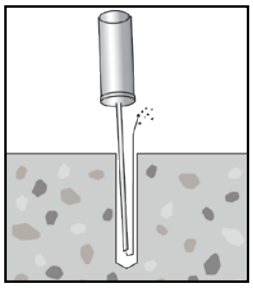
FLOODED HOLE APPROVED

CHEMICAL INJECTION
VINYLESTER

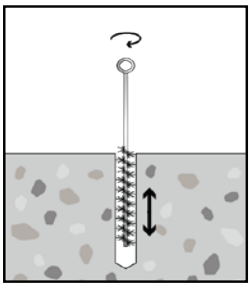
INSTALLATION



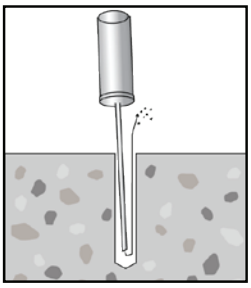
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



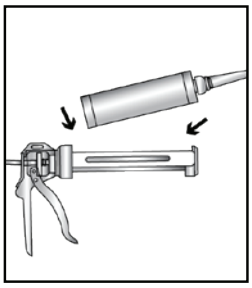
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



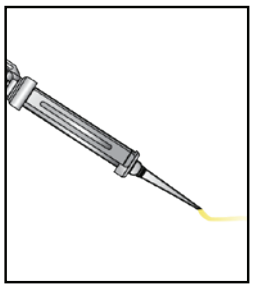
Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.



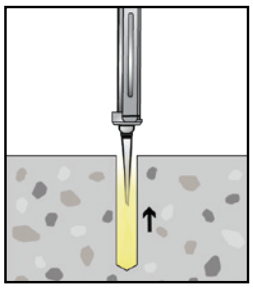
Blow out again at least 4 times.



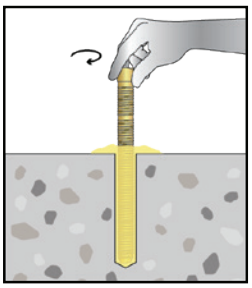
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



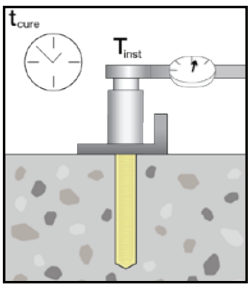
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



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	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
ACIPCVR4102 BremFix Vinylester Chemical Injection - 410ml cartridge – Use dispensing tool TMACICG3802	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.
ψ_{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

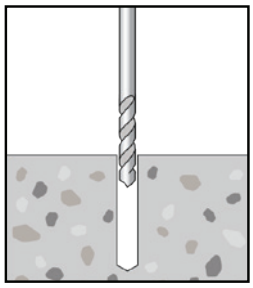
ETA OPTION 7 Uncracked Concrete

50 YEARS SERVICE LIFE

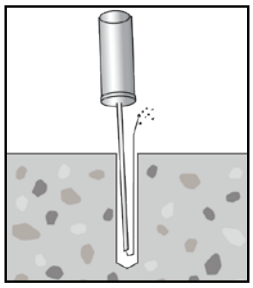
FLOODED HOLE APPROVED

CHEMICAL INJECTION
POLYESTER

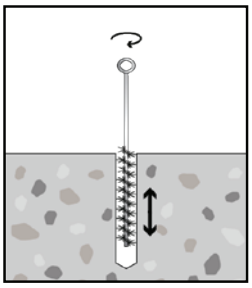
INSTALLATION



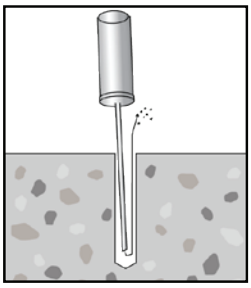
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



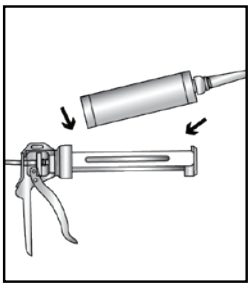
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter – a manual blower pump may be used to clean the hole. For larger diameter holes – compressed air cleaning must be used and may also be used for smaller holes.



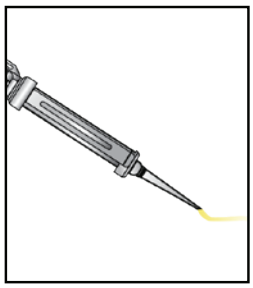
Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) – inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn – replace it.



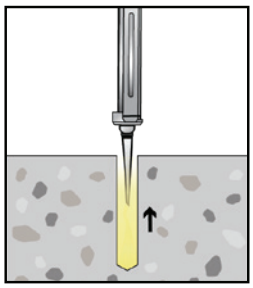
Blow out again at least 4 times.



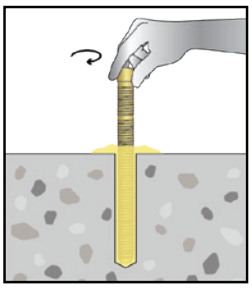
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



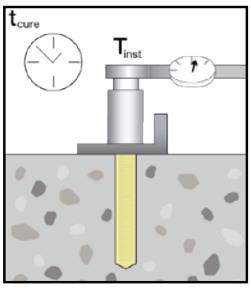
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



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)	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	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.
ψ_{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

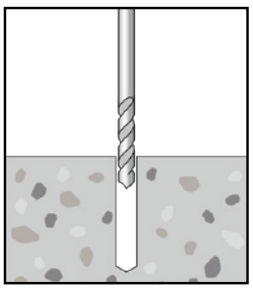
Features & Benefits

- 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

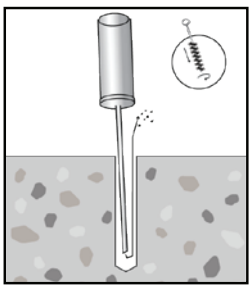
Application / Trades

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

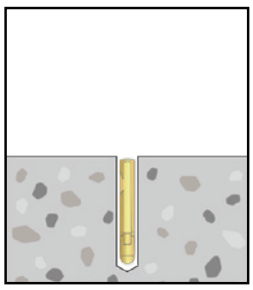
INSTALLATION



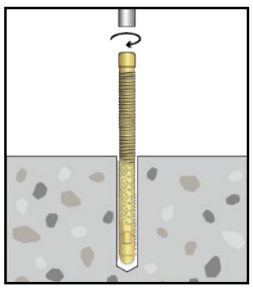
Drill hole into substrate to the specified diameter and depth.



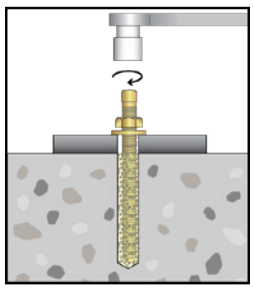
Clean the hole using the following sequence with a blower pump and correctly sized wire / nylon brush: Blow, brush, blow, brush, blow. Protect the hole from contamination prior to completing the installation.



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

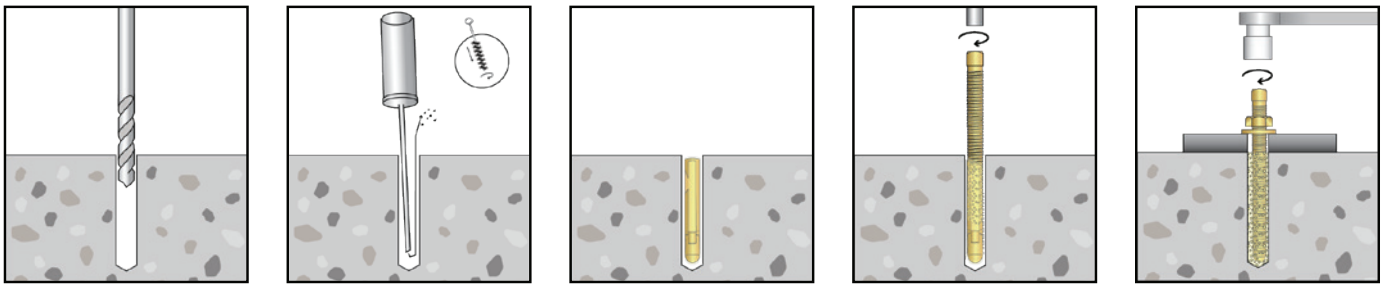
Application / Trades

- 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

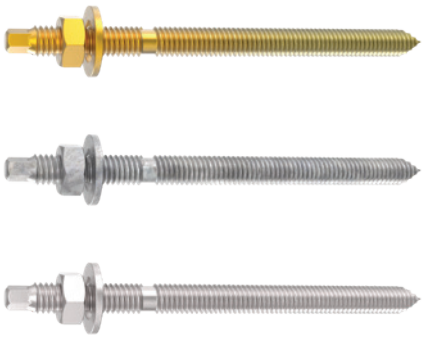


Drill hole | Clean hole | Insert capsule | Install stud | Secure fixture

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

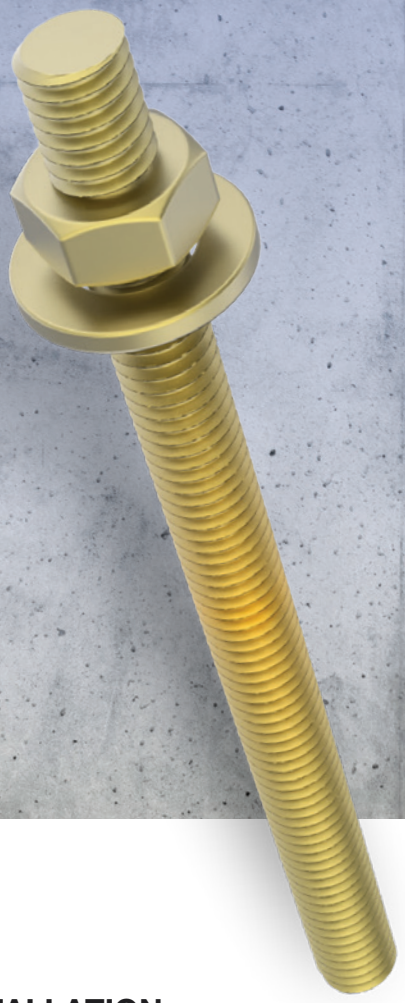


RANGE

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



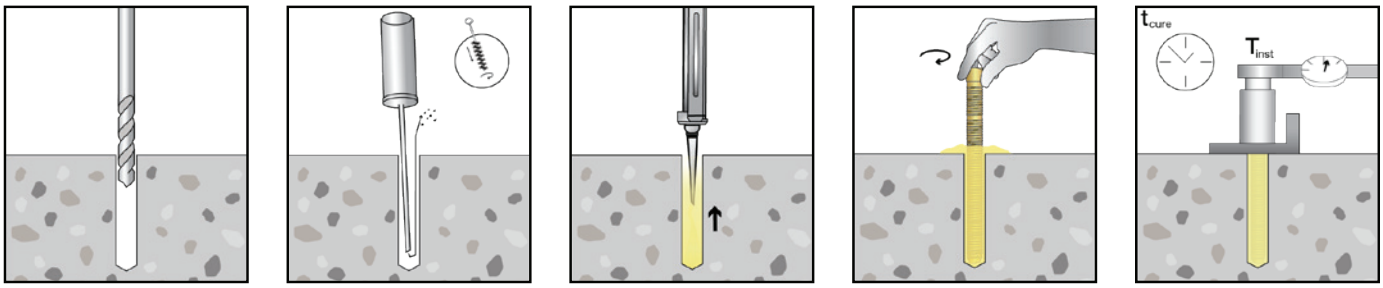
Features & Benefits

- 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

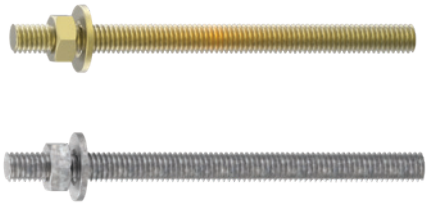


Drill hole | Clean hole | Inject chemical | Install stud | Secure fixture

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) 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) 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

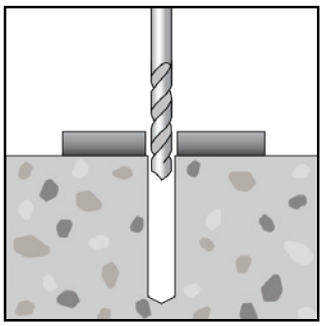
Application / Trades

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

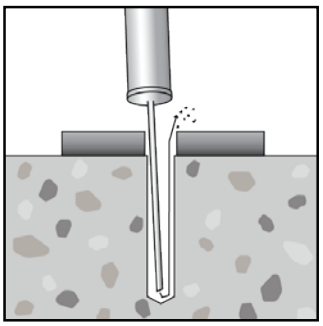
Serrated flange head for improved load distribution & anti-slip functionality

Serrated threads increase pull out performance

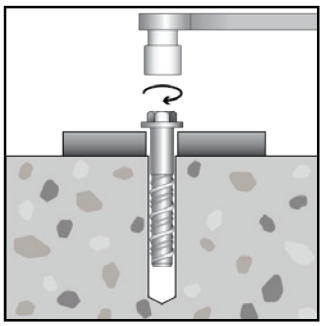
INSTALLATION



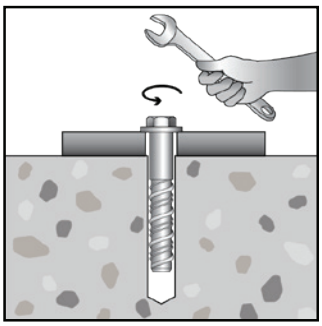
Drill hole through fixture into substrate to the specified diameter and depth



Clear hole of drilling debris.

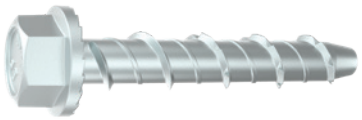


Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten until the fixture is firmly clamped.



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

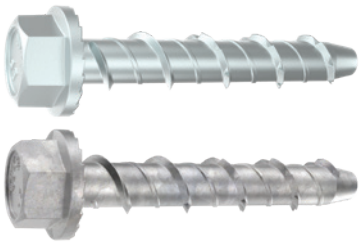
RANGE

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

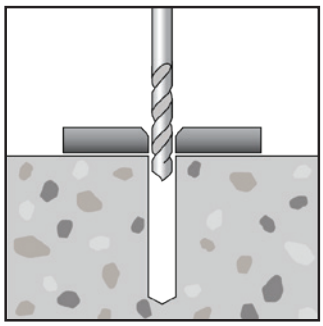
Application / Trades

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

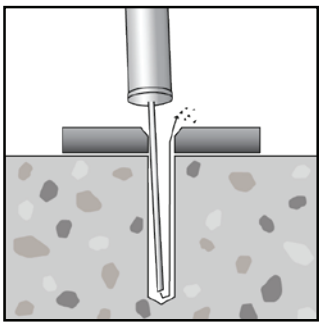
High tensile steel for superior strength

Serrated threads increase pull out performance

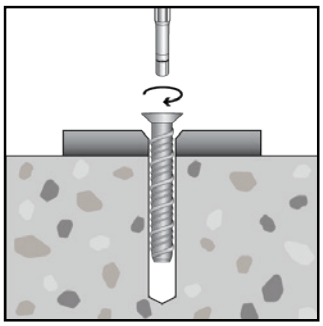
INSTALLATION



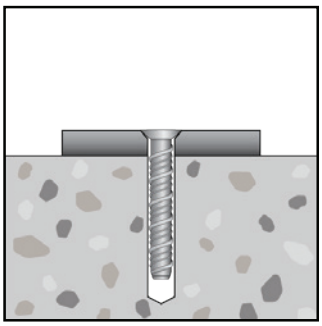
Drill hole through fixture into substrate to the specified diameter and depth.



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

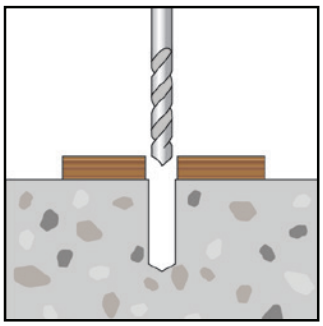
Application / Trades

- Timber bottom & top plate tie down

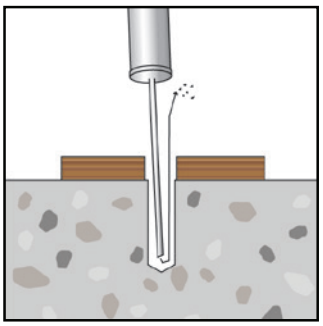
M12 Internal thread

High tensile steel for superior strength

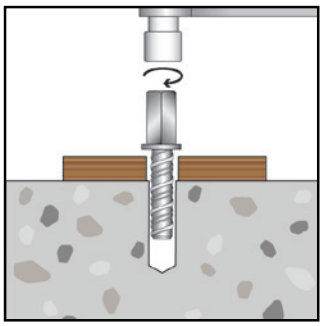
INSTALLATION



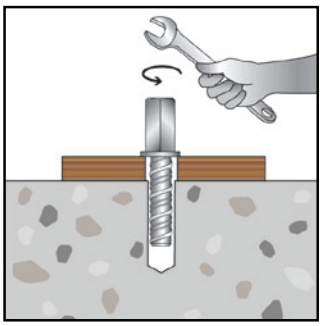
Drill hole through fixture into substrate to the specified diameter and depth



Clear hole of drilling debris.



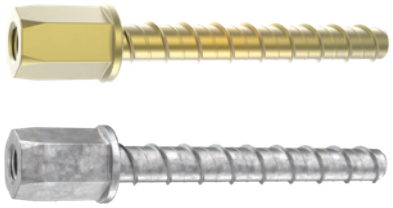
Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten until the fixture is firmly clamped.



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

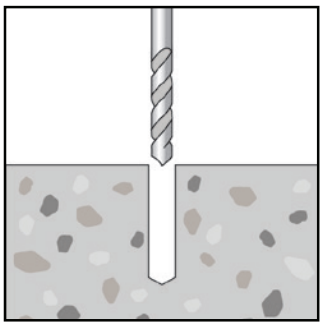
Application / Trades

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

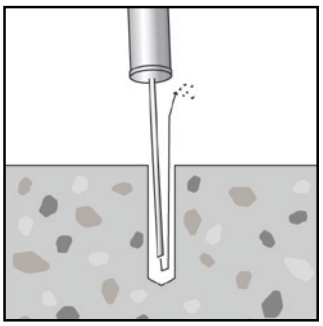
High tensile steel for superior strength

Serrated threads increase pull out performance

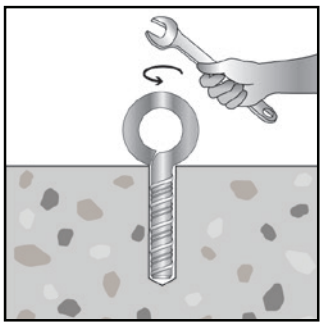
INSTALLATION



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

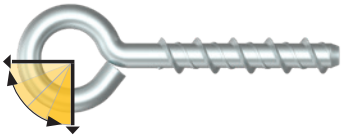
RANGE

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

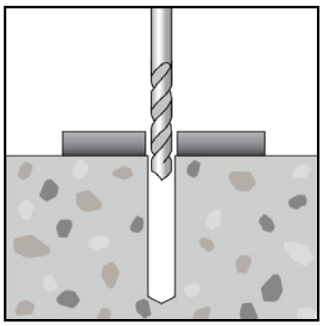
Application / Trades

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

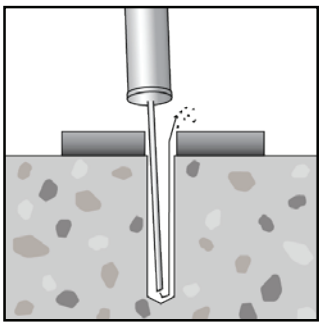
Long thread section accommodates a wide range of fixture thicknesses

Cold forged construction ensures superior strength and reliability.

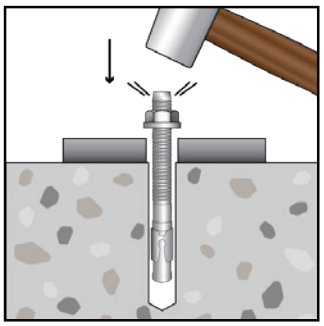
INSTALLATION



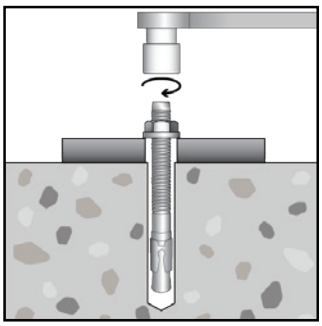
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



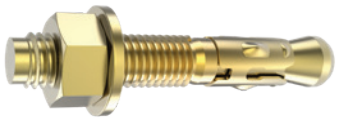
Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



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

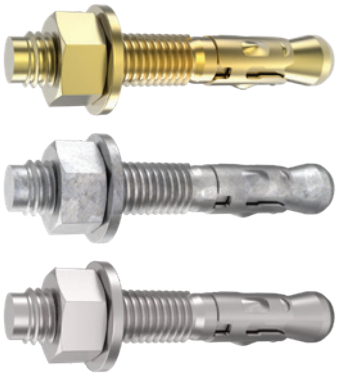
RANGE

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

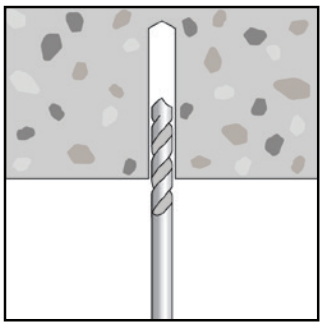
Application / Trades

- Light duty applications
- Suspended ceiling supports
- Cable supports

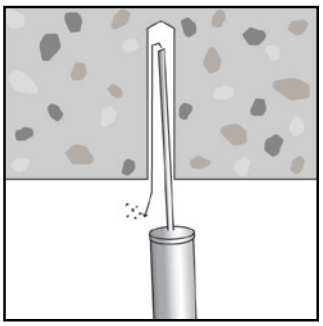
Eyelet creates an anchor point for tie wire

Pre-assembled for fast and easy installation

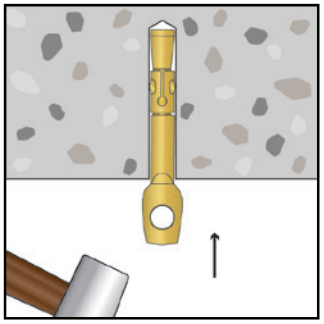
INSTALLATION



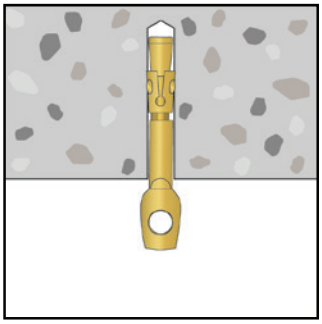
Drill hole into substrate to the specified diameter and depth.



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

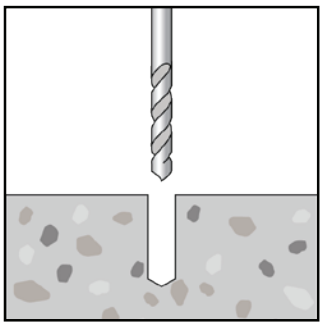
Application / Trades

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

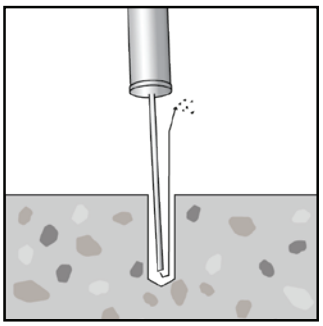
Designed to install flush to the substrate surface

Uses a simple setting tool to expand the anchor

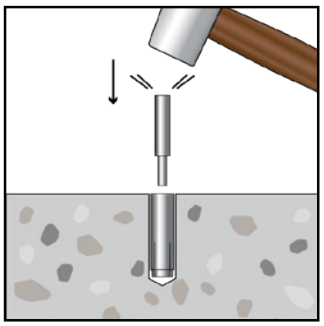
INSTALLATION



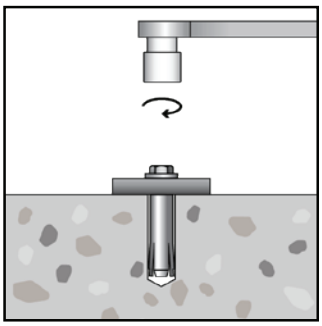
Drill hole into substrate to the specified depth



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

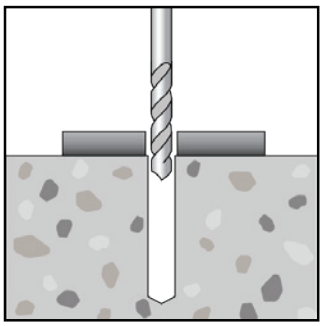
Application / Trades

- 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

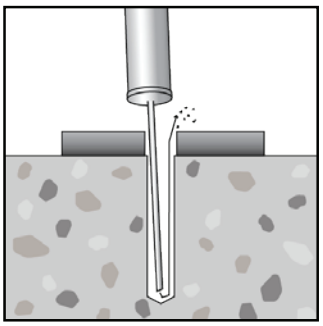
Product information conveniently stamped on sleeve

Simple, pre-assembled design

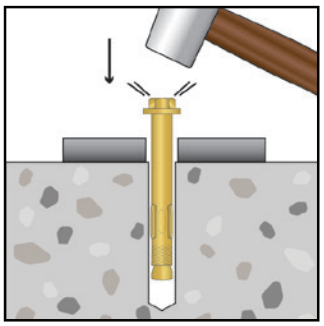
INSTALLATION



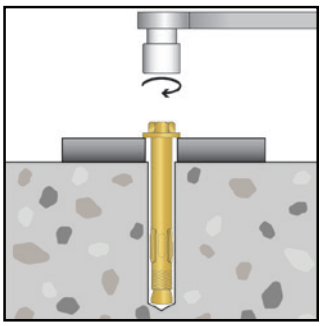
Drill hole through fixture into substrate to the specified diameter and depth.



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

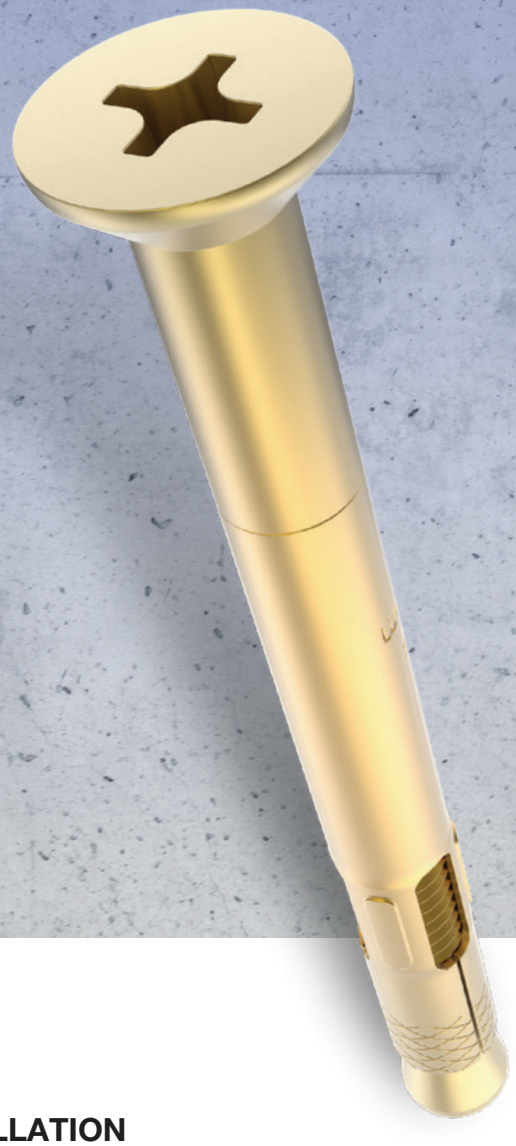
Note: Recommended capacities are based on:

– 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

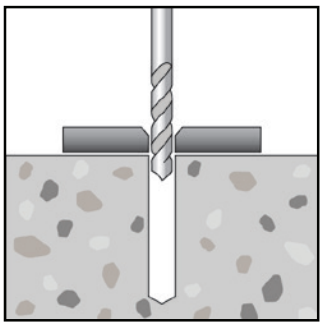
Application / Trades

- 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

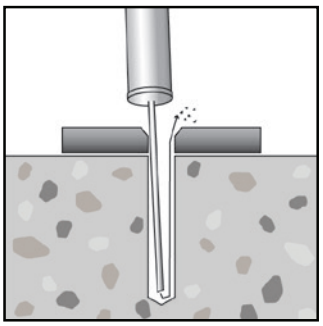
Countersunk head finishes flush for a clean fixing detail

Simple, pre-assembled design

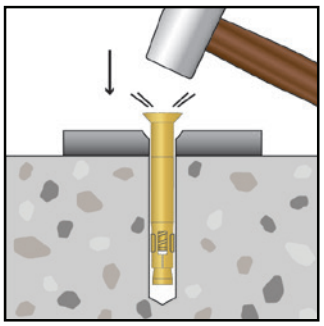
INSTALLATION



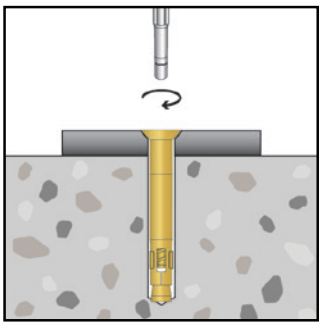
Drill hole through fixture into substrate to the specified diameter and depth.



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

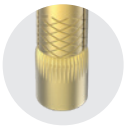
Features & Benefits

- 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

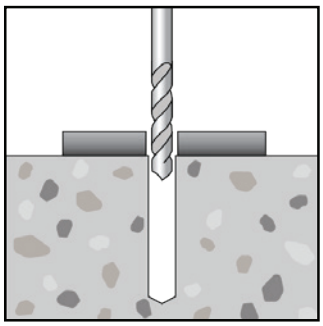
- Light to medium load applications into concrete and solid masonry
- Fixing of signs, gates, handles, grab rails
- Suspending light fixtures, pipe brackets
- Shelving unit tie down

Product information conveniently stamped on sleeve

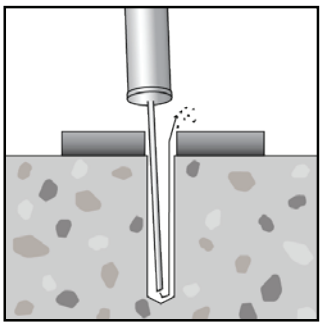


Simple, pre-assembled design

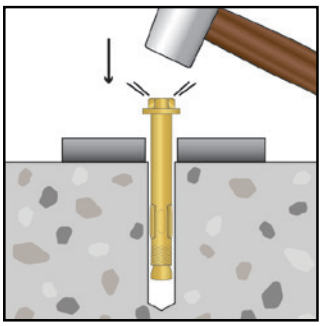
INSTALLATION



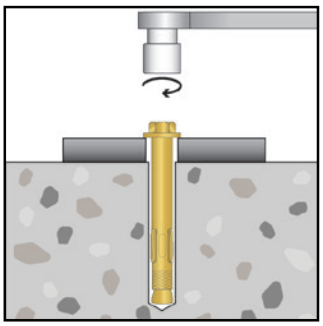
Drill hole through fixture into substrate to the specified diameter and depth.



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

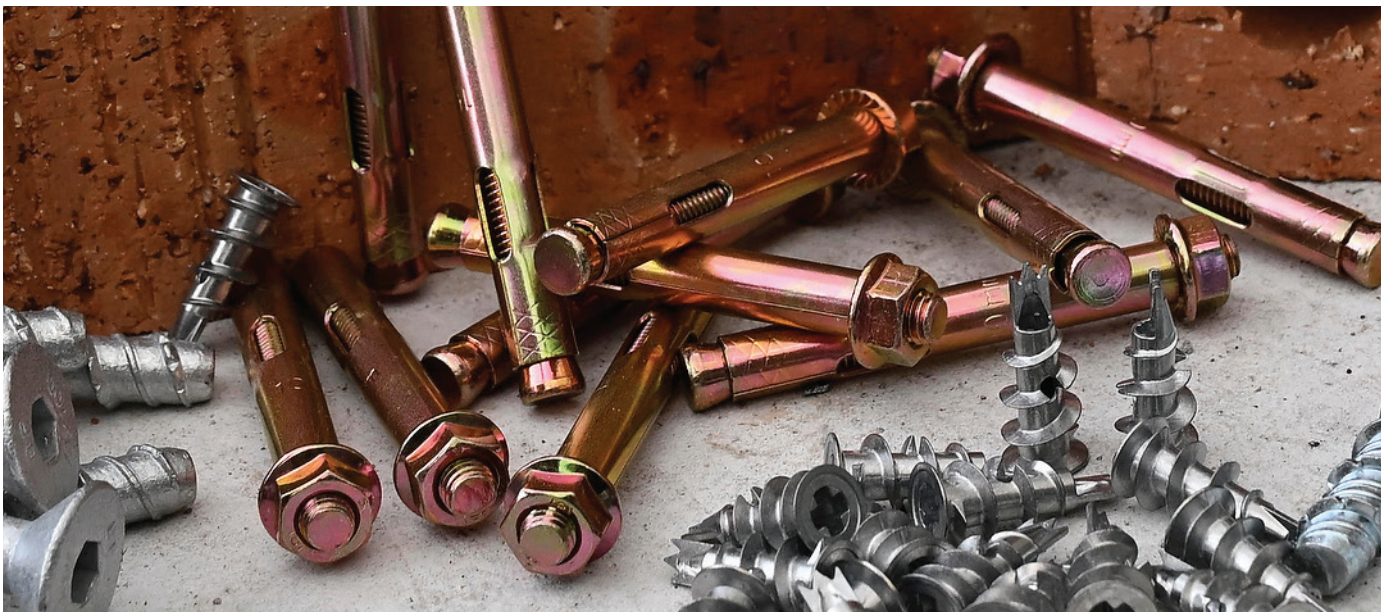
ZINC YELLOW MECHANICAL GALVANISED STAINLESS STEEL 316

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

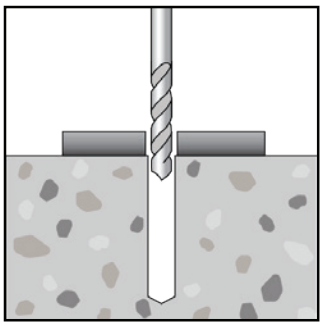
Application / Trades

- Light duty brackets and signage

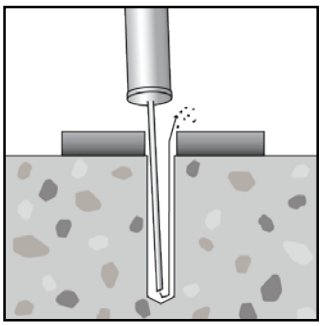
Round head provides a neat, low profile finish

Simple, pre-assembled design

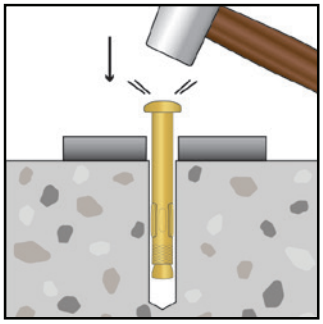
INSTALLATION



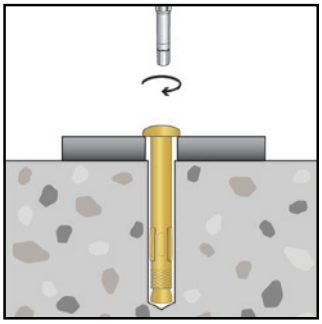
Drill hole through fixture into substrate to the specified diameter and depth.



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

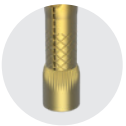
Features & Benefits

- 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

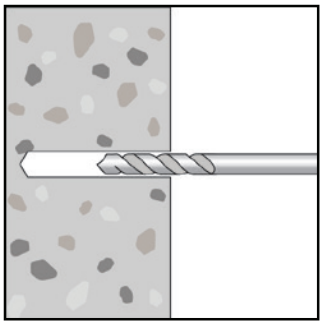
- Light duty applications in concrete & solid masonry
- Suspension of light fittings, signage & potted plants
- 50kg capacity - do not use for suspension of seats, chairs or swings

Versatile hook or eye option to suit your application

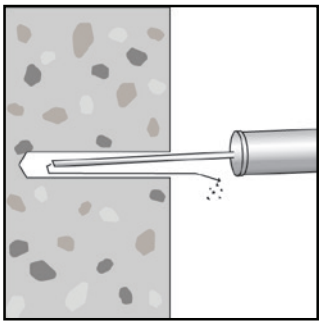


Dependable design ensures reliable performance

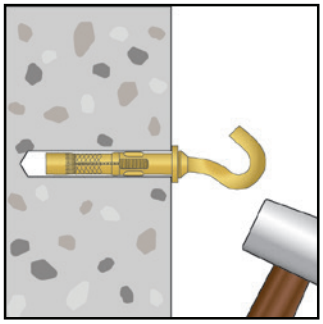
INSTALLATION



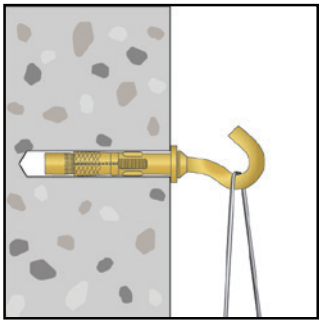
Drill hole through fixture into substrate to the specified diameter and depth.



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

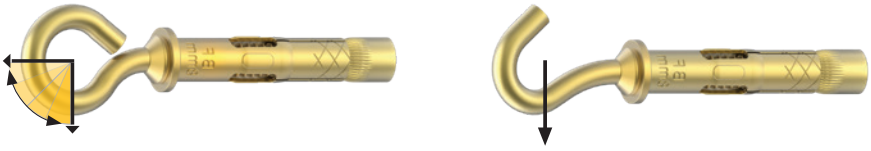
ZINC YELLOW

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

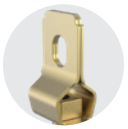
ZINC YELLOW

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

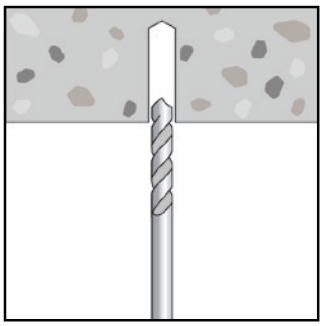
- Light duty applications
- Suspended ceiling supports
- Cable / cable tie anchorage



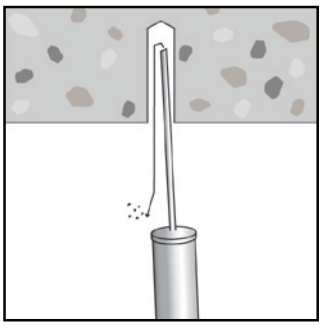
Eyelet creates an anchor point for tie wire

Pre-assembled for fast and easy installation

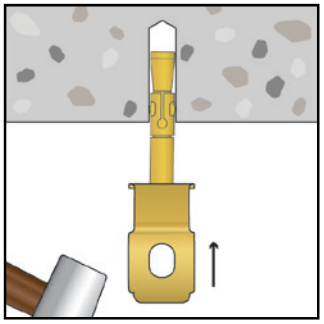
INSTALLATION



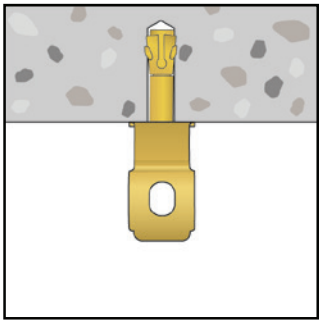
Drill hole into substrate to the specified diameter and depth.



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

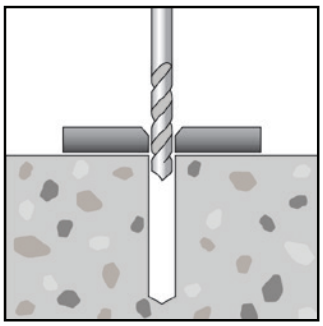
Application / Trades

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

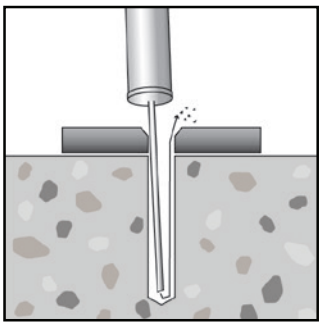
Round head for a low profile finish

Stainless Steel 316 option for marine and external applications

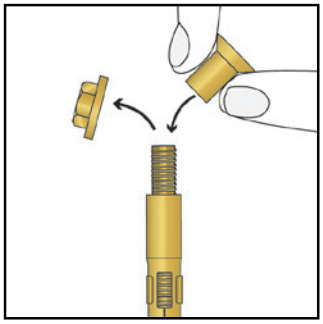
INSTALLATION



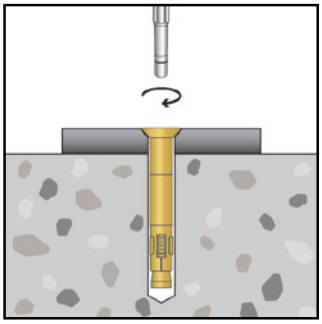
Drill hole through fixture into substrate to the specified diameter and depth.



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

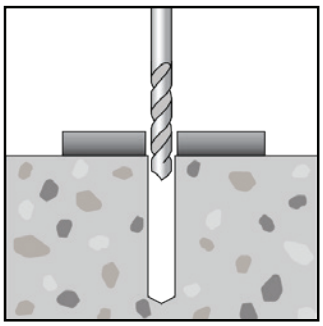
Application / Trades

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

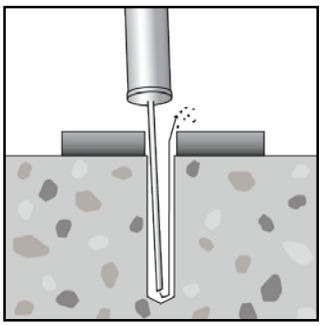
Deep drive recess for postive bit engagement

Sharks tooth thread reduces installation torque

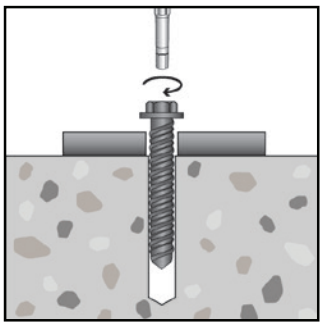
INSTALLATION



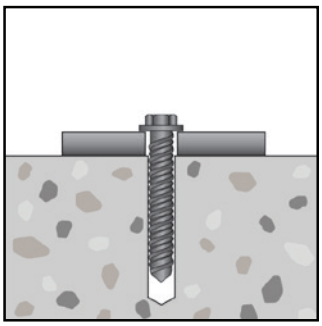
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



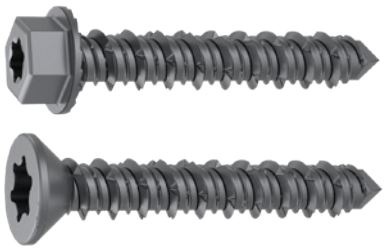
Insert anchor into hole and screw in using a hand or power tool to drive socket / Torx driver bit. Apply constant forward pressure until fixture has clamped.



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

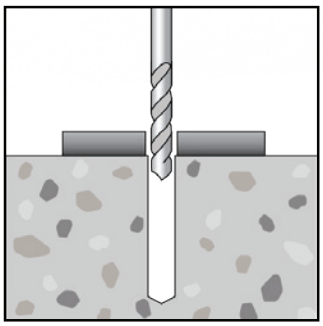
Application / Trades

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

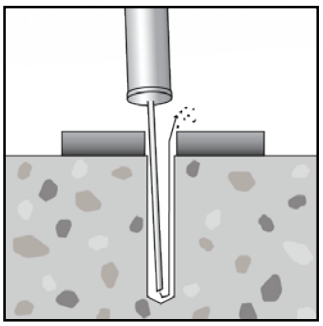
Large washer head for superior clamping force

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) l_t	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
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

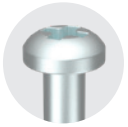
WALL GRAB SCREW
PAN HEAD

Features & Benefits

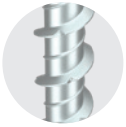
- Light duty fixing into concrete and solid and hollow masonry
- Convenient through fixture fastening
- Pan head for a low profile finish

Application / Trades

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

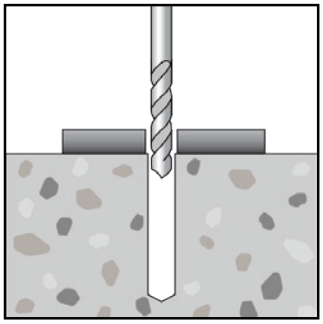


Pan head for a decorative appearance and increased clamping force

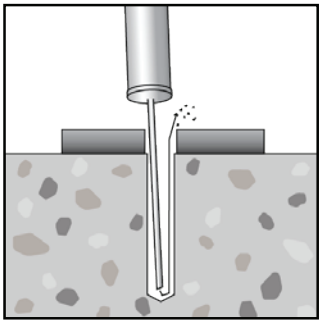


Unique Hi Lo thread installs into multiple materials including masonry and timber

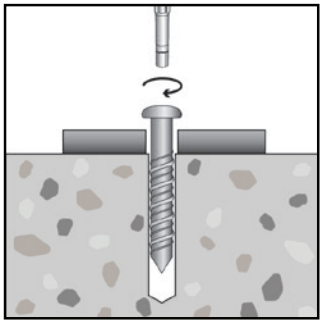
INSTALLATION



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



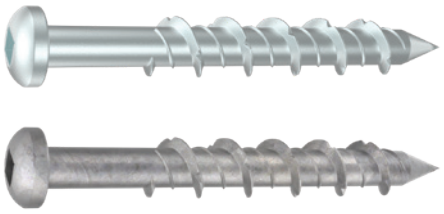
Clear hole of drilling debris.



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

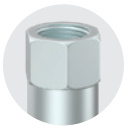
ZINC PLATED

Features & Benefits

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

Application / Trades

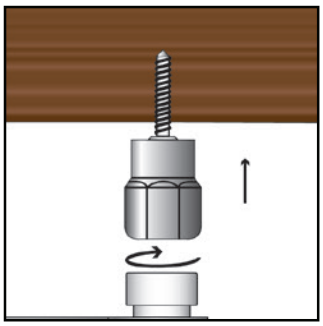
- Suspending threaded rod
- Suspending conduit
- HVAC ductwork and strut channels
- AC ducting
- Hanging pipe
- Cable tray applications



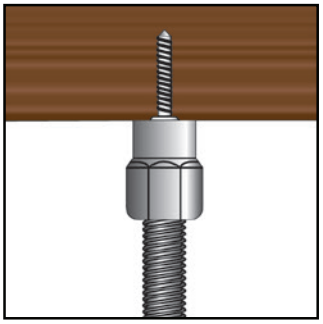
Available for vertical and side suspended applications

Sharp point for self-drilling performance into timber

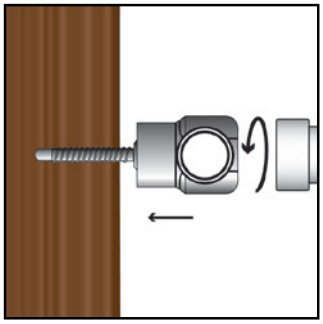
INSTALLATION

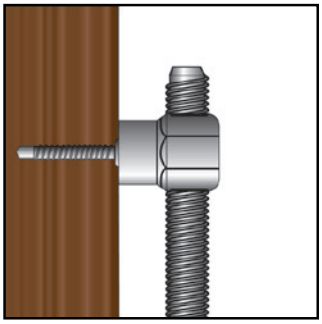


Attach the correct sized socket driver to the hanger and drive until the anchor is securely fastened, take care not to overdrive.



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

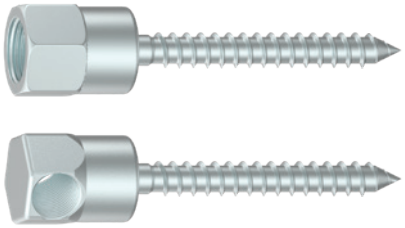




Ensure the threaded rod is fully threaded through the fastener. Secure rod with M10 nut(s) for additional security.

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

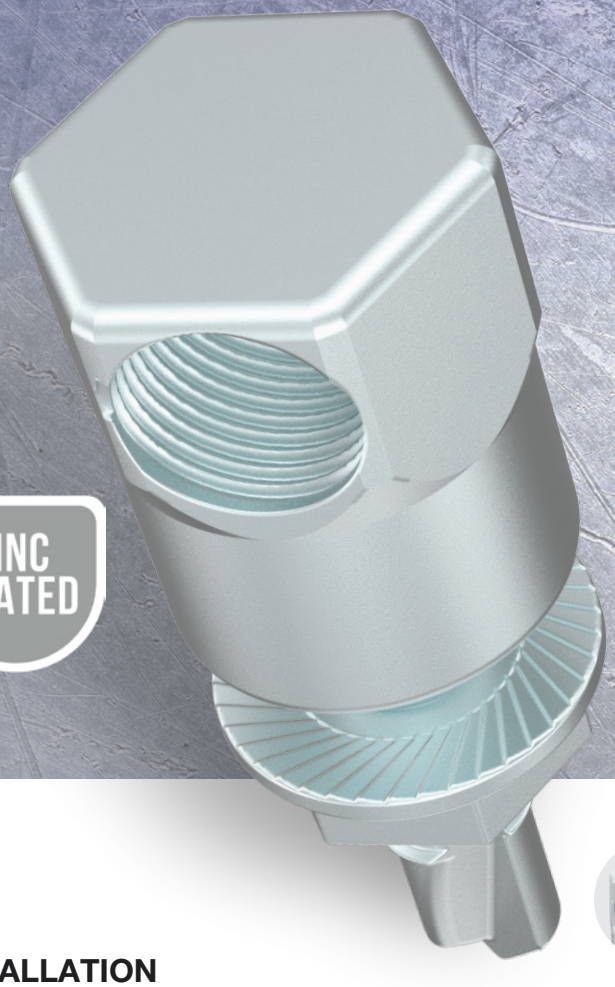
METAL FIXING

Features & Benefits

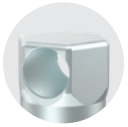
- Suitable for M10 threaded rod
- Vertical or side mount options available
- Fast to install
- Self drills into metal sections

Application / Trades

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



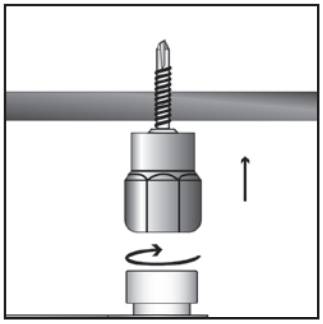
ZINC PLATED



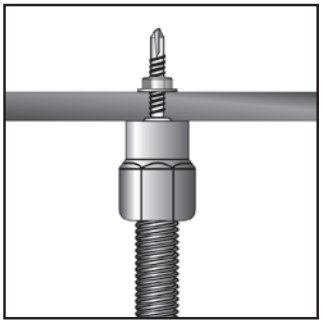
Available for Vertical and Side suspended applications

Hardened drill point for self-drilling into metal

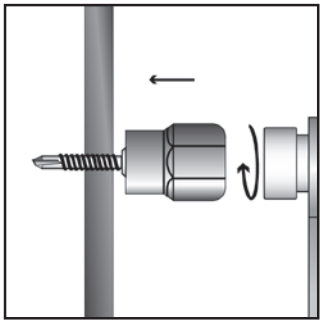
INSTALLATION



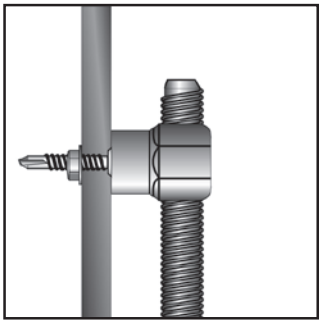
Attach the correct sized socket driver to the hanger and drive until the anchor is securely fastened, take care not to overdrive.



Secure the hanger by fitting the supplied nut.



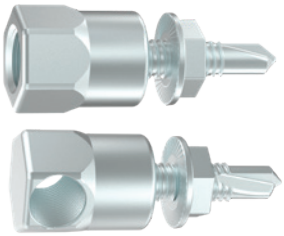
For additional connection strength thread nut supplied onto the hanger from behind the metal substrate.



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

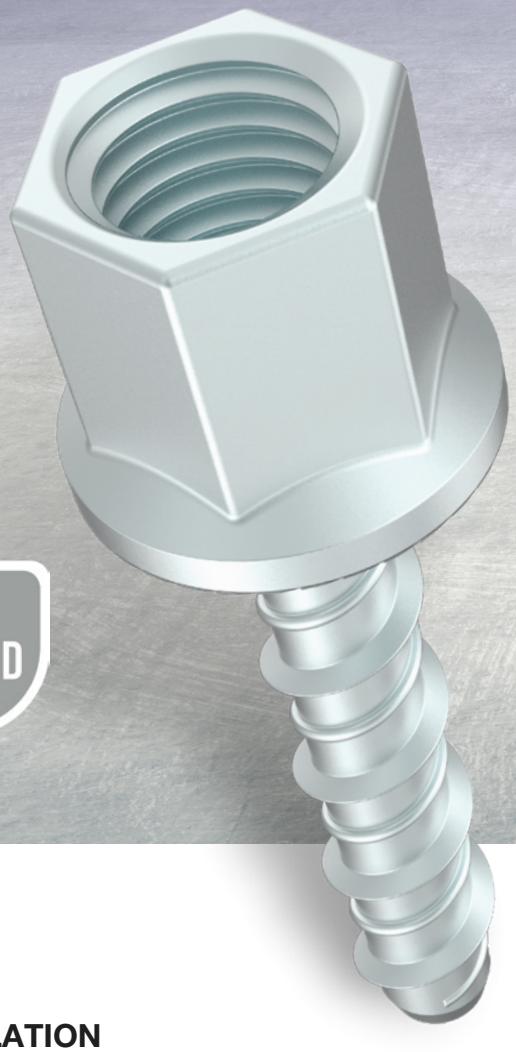
CONCRETE FIXING

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

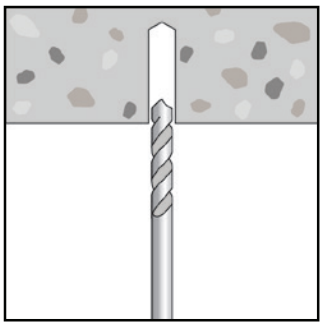


ZINC PLATED

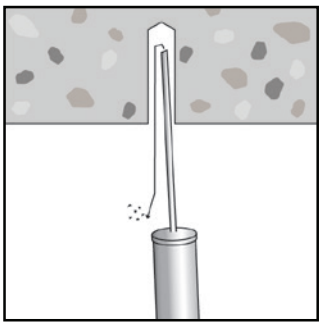
Hex shaped head for easy installation

Hi Lo thread, reduces torque during installation.

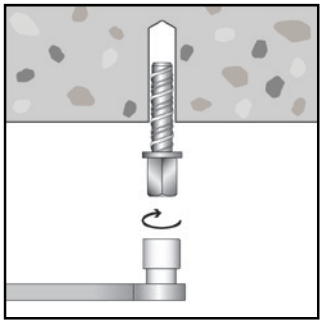
INSTALLATION



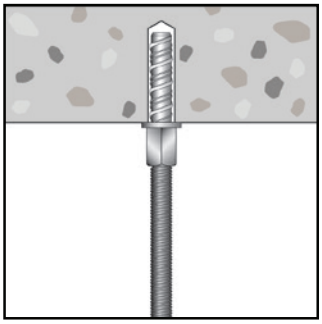
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.

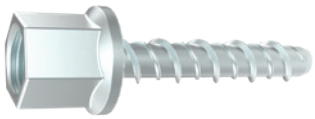


Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving. Ensure the underside of the anchor is flush with the base material.



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

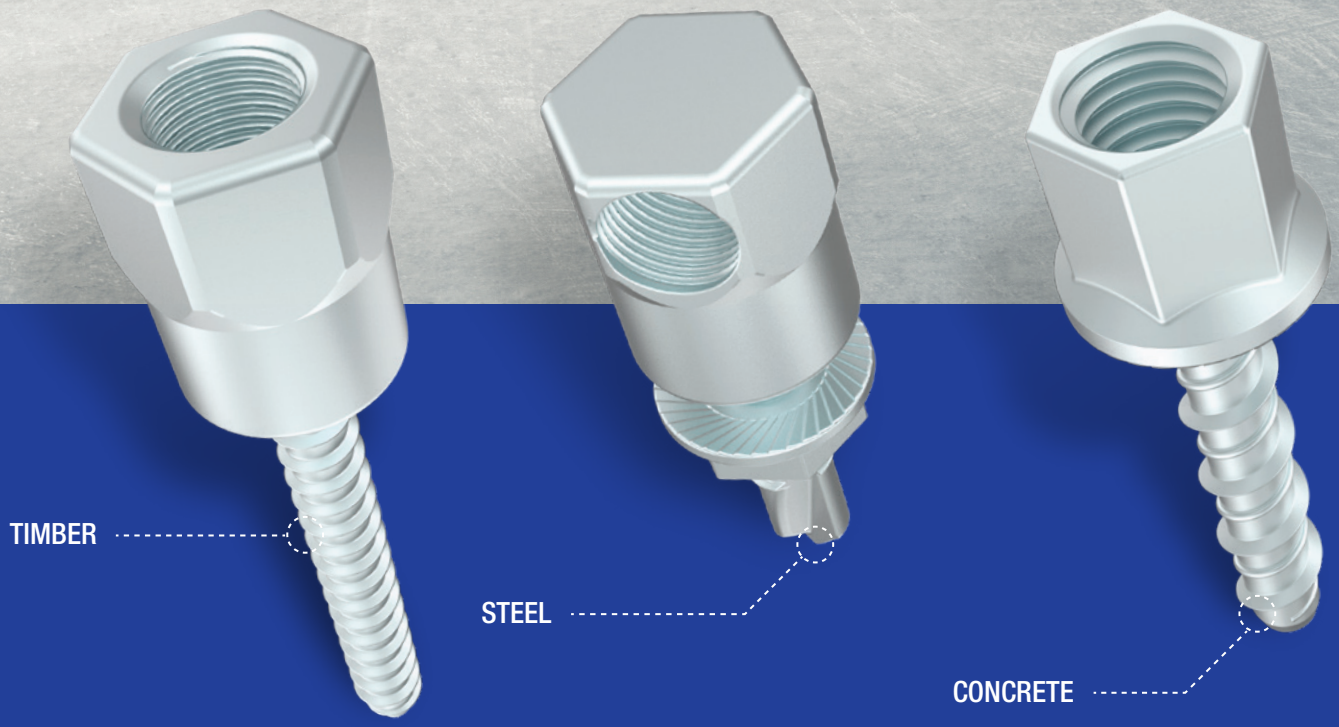


ZINC PLATED

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

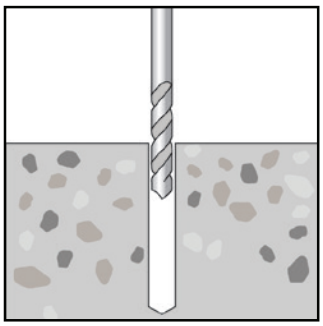
Application / Trades

- 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

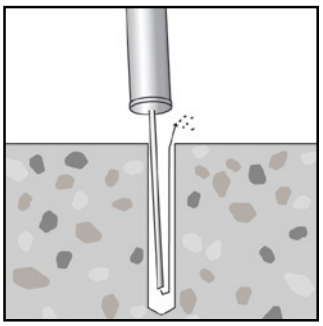
Various head styles to suit your application

Manufactured from hardened carbon steel for superior strength

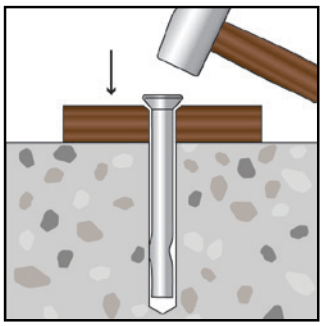
INSTALLATION



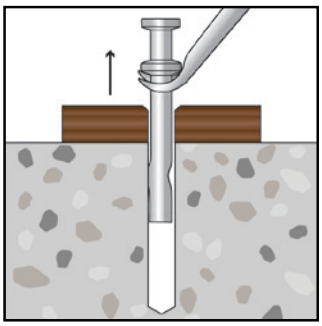
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



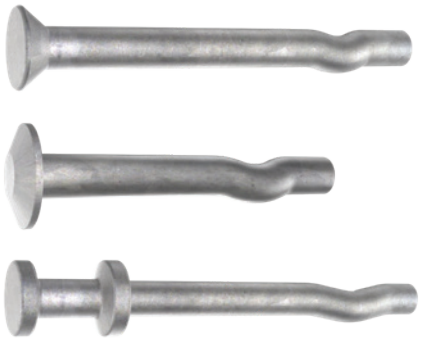
Place fixture then drive anchor through fixture into drilled hole using a hammer until fixture is firmly clamped.



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



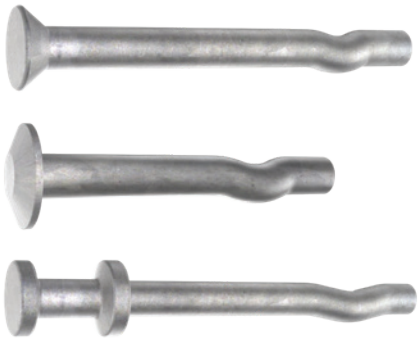
RANGE

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

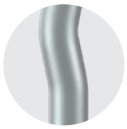
- Light duty displacement setting anchor
- Simple and robust one piece design
- Simply hammer into pre – drilled hole to install
- Cannot be easily removed once installed

Application / Trades

Suspension of:

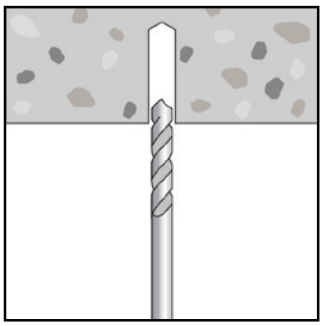
- Ceiling grid
- Overhead lightweight signage
- Electrical cable tie / catenary wire

Robust one piece design for simple and speedy installation

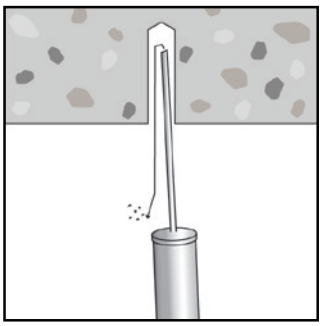


Manufactured from hardened carbon steel for superior strength

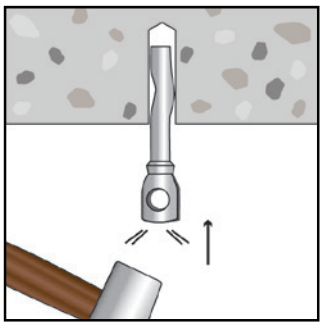
INSTALLATION



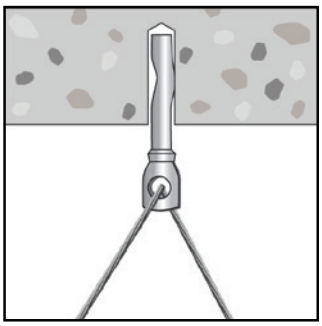
Drill hole into substrate to the specified depth



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

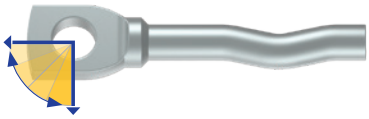
Product Code	Pack Quantity	Anchor length (mm)	Anchor diameter / drill hole (mm)	Drill hole depth (mm)	Minimum embedment depth (mm)
		l_t	d_0	h_1	h_{nom}
ASTTZ050302	100	30	5	40	30
ASTTZ060252	100	25	6.5	35	25

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

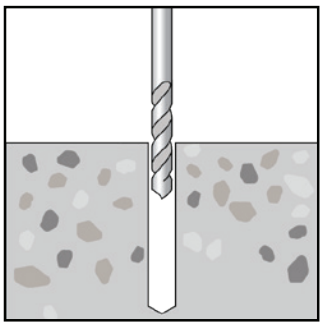
Application / Trades

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

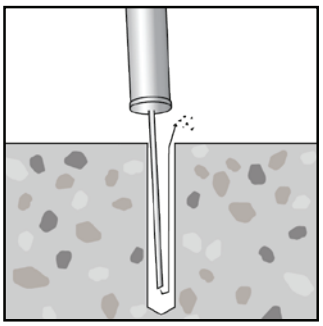
Tamper proof and permanent fixing.

Manufactured from hardened carbon steel for superior strength

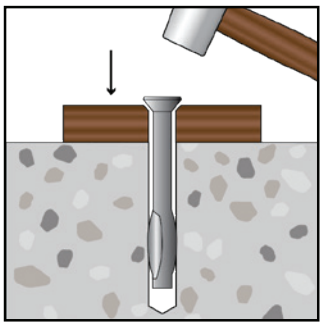
INSTALLATION



Drill hole into substrate to the specified depth



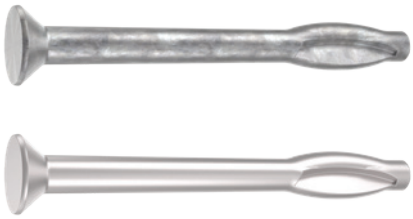
Clear hole of drilling debris.



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

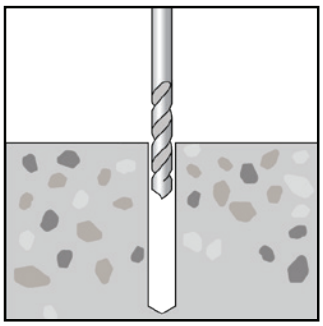
Application / Trades

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

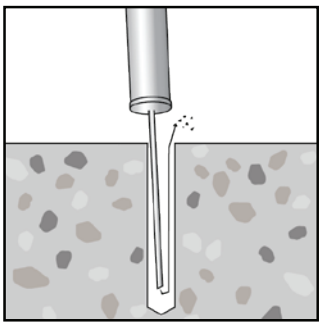
Tamper resistant and permanent fixing.

Manufactured from hardened carbon steel for superior strength

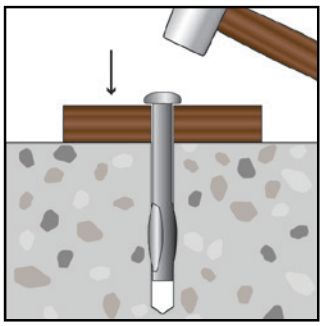
INSTALLATION



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

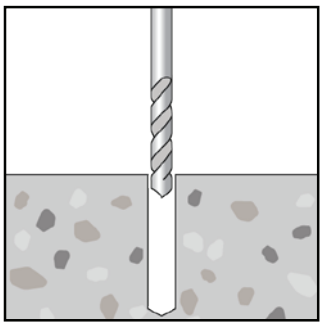
Application / Trades

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

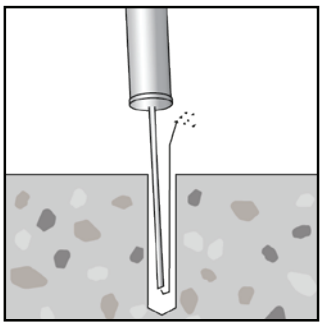
Low profile, large diameter mushroom head firmly captures the fixture

Zinc Alloy body

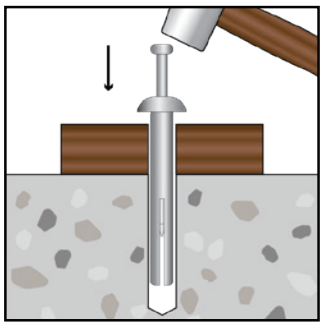
INSTALLATION



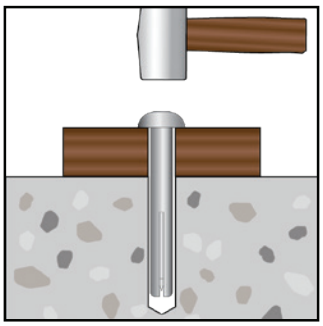
Drill hole into substrate to the specified depth



Clear hole of drilling debris.



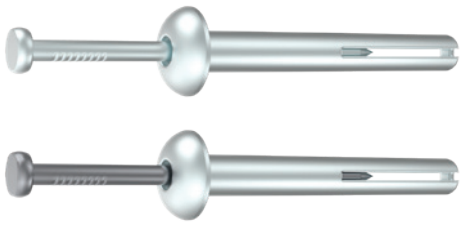
Tap anchor through the fixture into the substrate until all are firmly in contact.



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

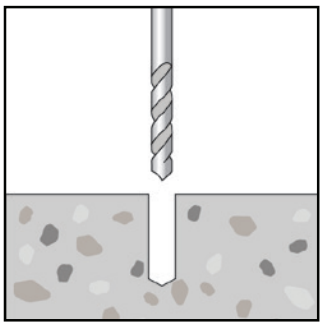
Application / Trades

- Signage
- Brackets
- Not suited to through fastening applications

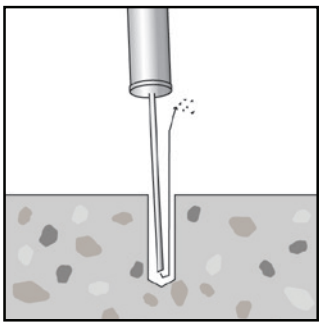
Anchor design provides a flush finish

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

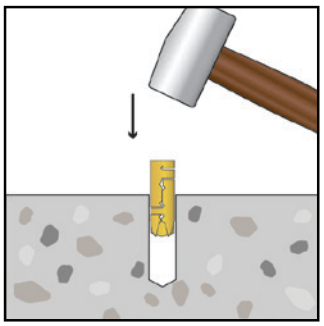
INSTALLATION



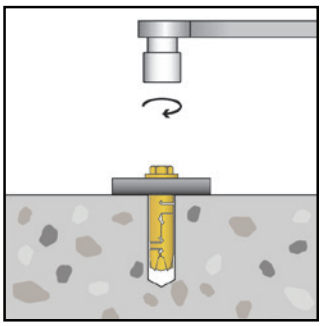
Drill hole into substrate to the specified depth



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

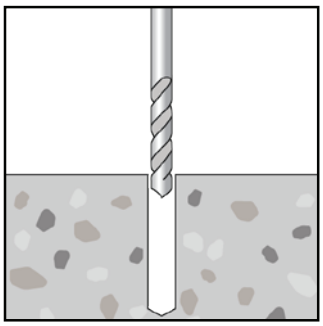
HOT DIPPED GALVANISED

KEW®

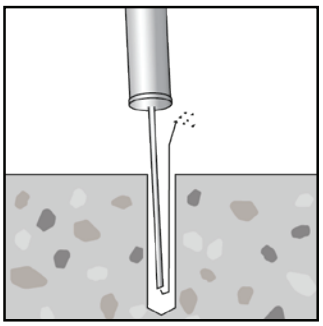
Washered Hex head is ideal for timber applications

Nylon sleeve provides insulation between fixing screw and substrate

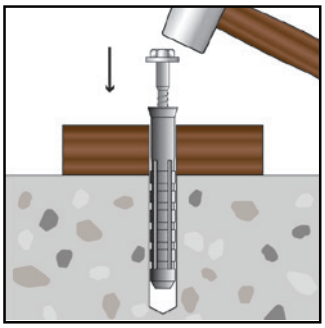
INSTALLATION



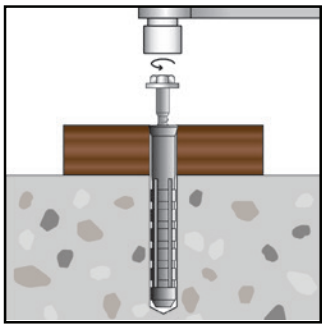
Drill hole into substrate to the specified diameter and depth



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

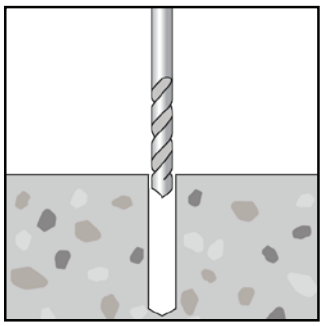
Application / Trades

- Signage
- Brackets
- Sanitary fixtures

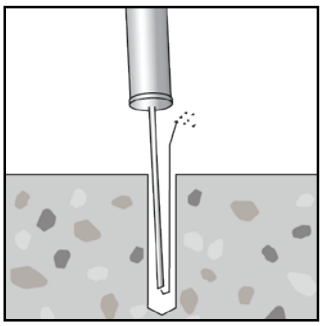
A wide range of head styles, accomodating a wide range of applications

Nylon anchor body insulates anchor screw from fixture

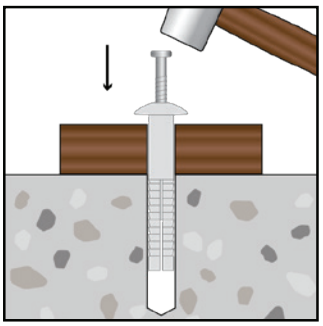
INSTALLATION



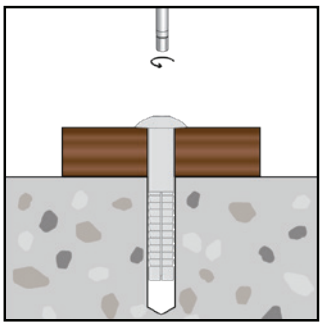
Drill hole into substrate to the specified diameter and depth.



Clear hole of drilling debris.



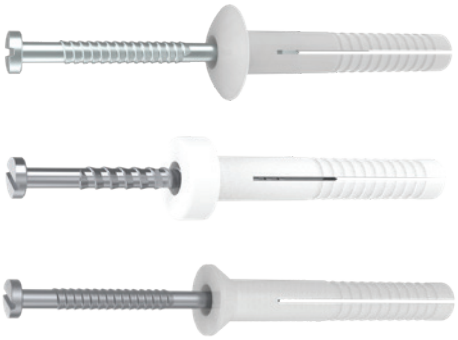
Tap the anchor through the fixture into the drilled hole with light hammer blows until anchor is flush with fixture surface and the drive pin is flush with the head of the anchor.



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



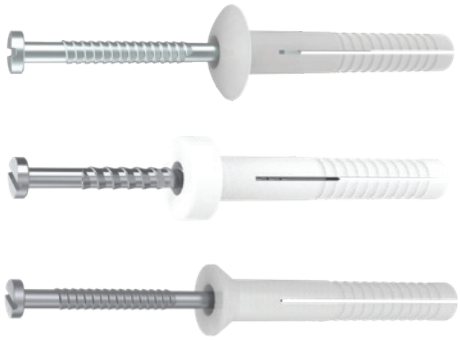
RANGE

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

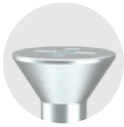
HEAVY DUTY NYLON ANCHOR
COUNTERSUNK HEAD

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

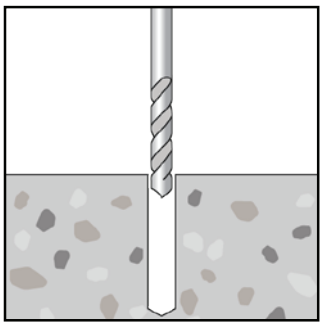
- Signage
- Brackets
- Fixing timber battens



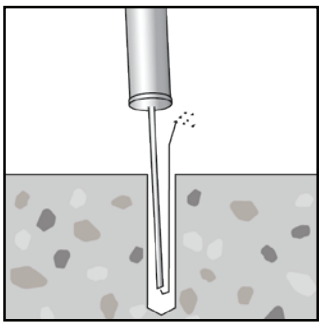
Countersunk head for a flush finish

Nylon sleeve insulates the screw from the substrate

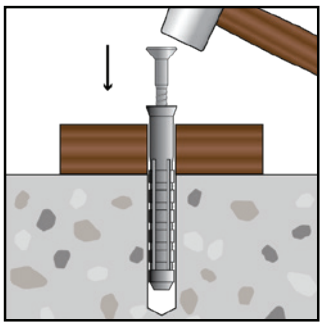
INSTALLATION



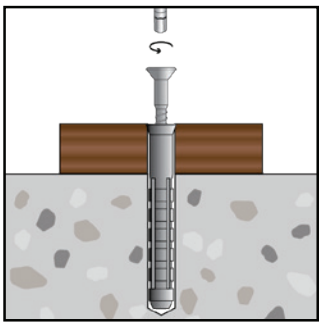
Drill hole into substrate to the specified depth.



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

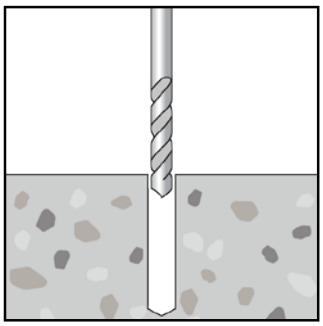
Application / Trades

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

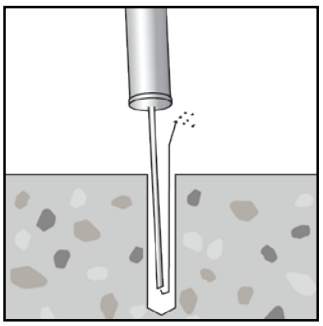
Countersunk head for a flush finish

Nylon sleeve insulates the screw from the substrate

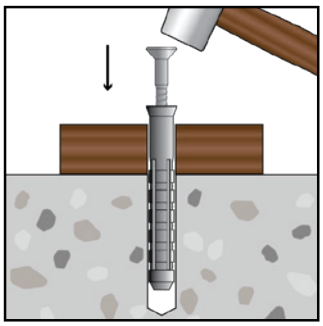
INSTALLATION



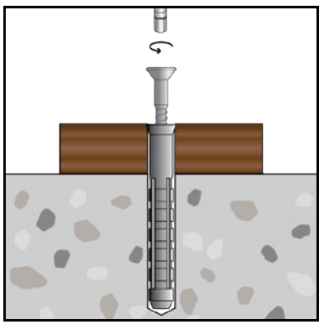
Drill hole into substrate to the specified depth



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

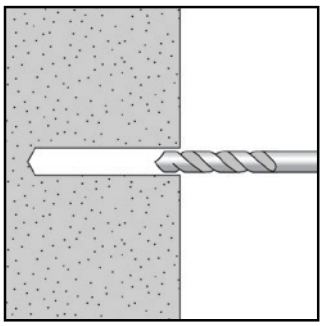
Application / Trades

- Signage
- Brackets
- Skirting boards
- Rails

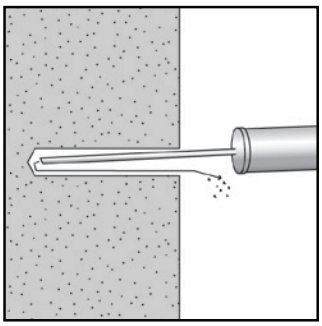
Anti spin lugs designed to prevent the plug from rotating in the hole

Tapered plug end simplifies installation

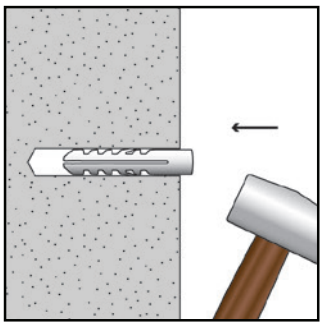
INSTALLATION



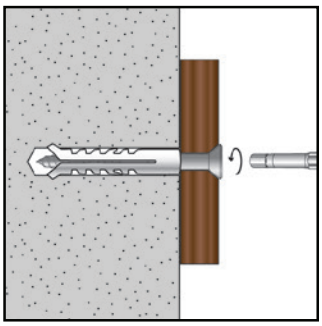
Drill hole into substrate to the specified depth.



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

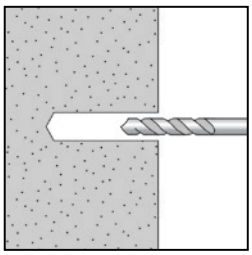
- Suitable for concrete, brick, block and stone
- Cost effective light duty anchoring
- Chamfered end to simplify installation

Application / Trades

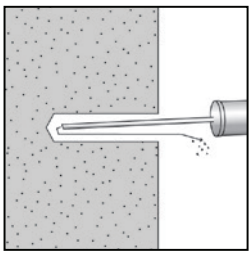
- Light duty applications
- Brackets
- Skirting boards
- Sanitary fixings

Chamfered ends for easy insertion

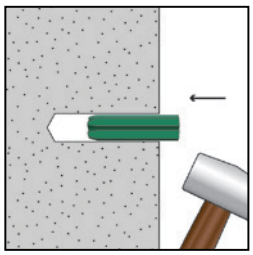
Longitudinal grooving for an increased hold



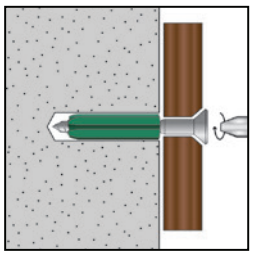
Drill hole into substrate to the specified depth.



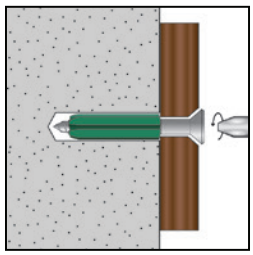
Clear hole of drilling debris.



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

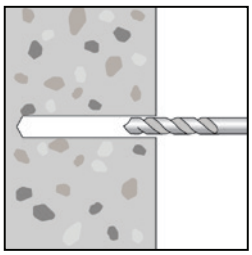
Application / Trades

- Signage
- Brackets
- Skirting boards
- Rails

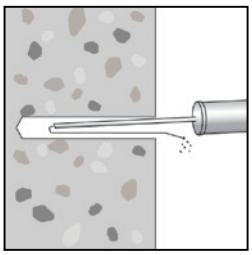
Heavy duty radial fins prevent anchor spin

Triple split design expands in three directions for maximum holding power

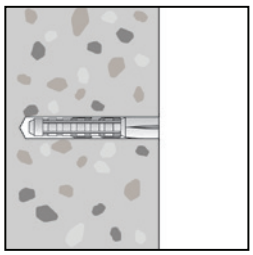
INSTALLATION



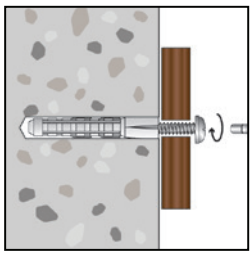
Drill hole into substrate to the specified diameter and depth.



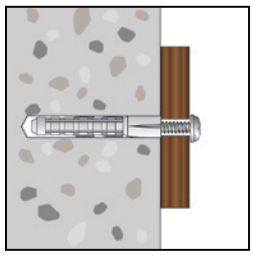
Clear hole of drilling debris.



Insert plug flush with the substrate surface.

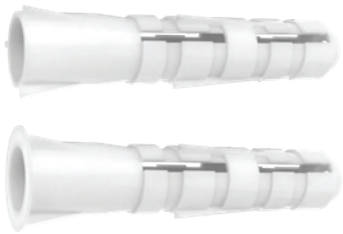


Mount the fixture and fasten by driving the correctly sized Bremick screw until the fixture is clamped.



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

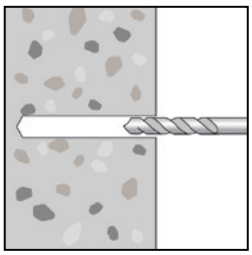
- Signage
- Brackets
- Skirting boards
- Rails

KEW®

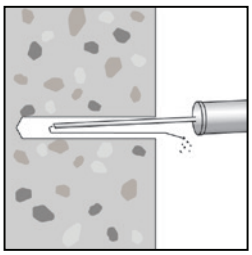
Heavy duty radial fins prevents anchor spin

Triple split design expands in three directions for maximum holding power

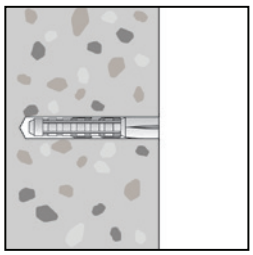
INSTALLATION



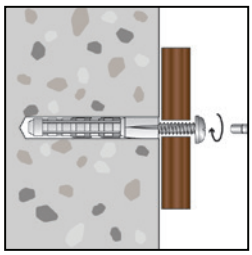
Drill hole into substrate to the specified depth



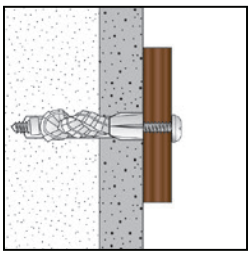
Clear hole of drilling debris.



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:

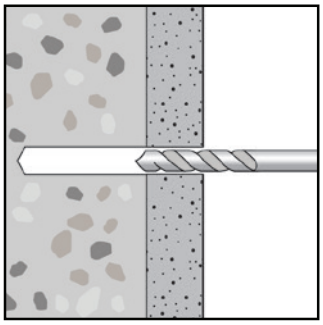
- Thermal or acoustic insulation materials to a wide range of substrates
- Sealing sheets
- Foil
- Mesh fabrics

Use with Bremick self drilling screws to fix into timber

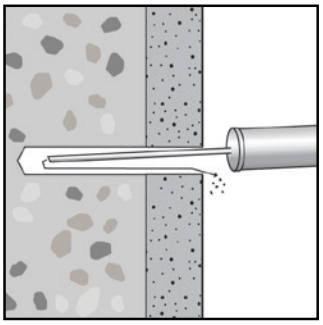
Raised profile assists with mortar and plaster adhesion

Universal design and hole sizing suits various fixing options

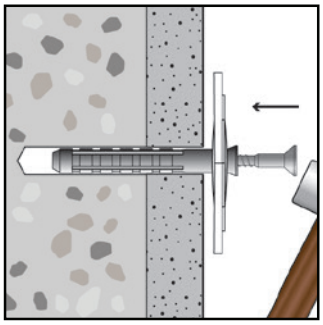
INSTALLATION INTO CONCRETE USING KEW HEAVY DUTY NYLON ANCHOR



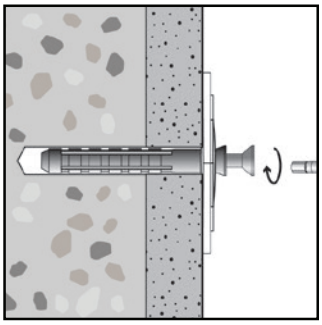
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.

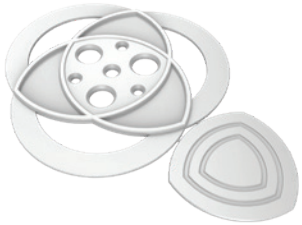


Install anchor through the Insulation disc and push / tap into place until disc pressed against insulation.

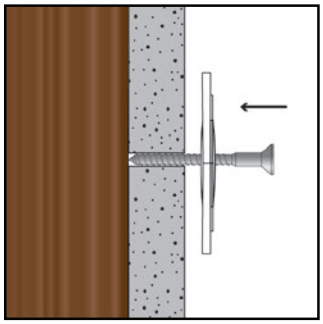


Drive screw into anchor until insulation is clamped. If required, detach the cover plate and attach over the centre of the insulation disc to cover and protect the fixing.

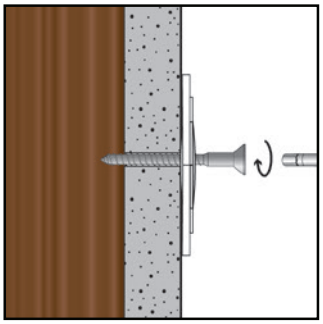
UNIVERSAL INSULATION DISK



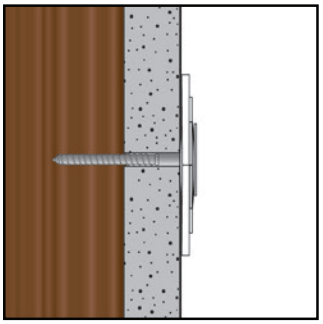
INSTALLATION INTO TIMBER



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



Drive screw into timber member until the insulation is clamped.

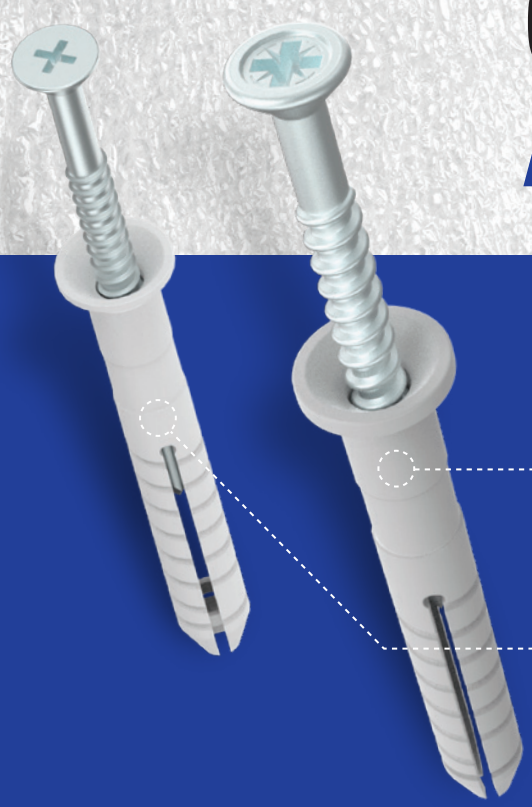


If required, detach the cover plate and fix over the centre of the insulation disc to cover and protect the fixing.

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

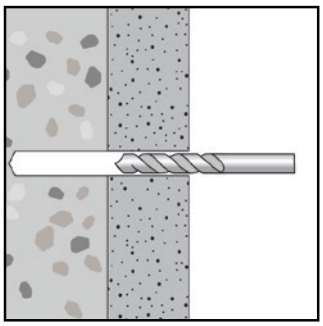
Secure fastening of composite thermal insulation systems to concrete, natural stone, solid/hollow brick and aerated block:

- Thermal insulation
- Acoustic insulation

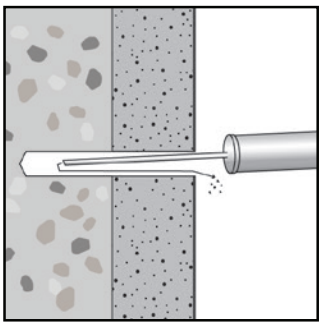
Pre-mounted fastener for quick installation

Anti-rotation fins prevent the anchor spin

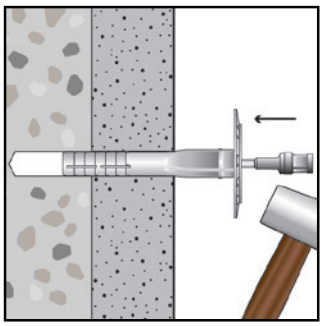
INSTALLATION



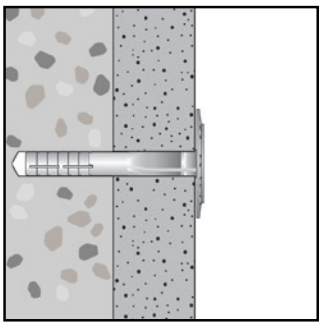
Drill hole into substrate to the specified depth.



Clear hole of drilling debris.



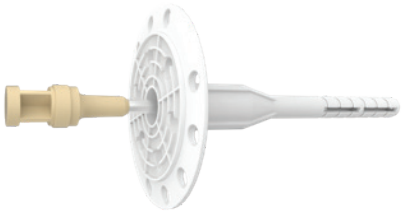
Insert anchor into drilled hole.



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

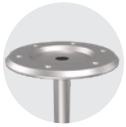
Features & Benefits

- 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

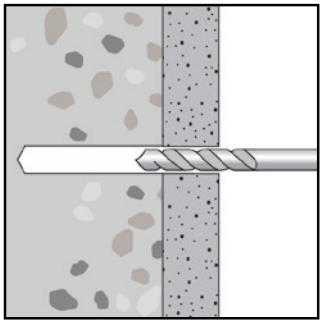
KEW®



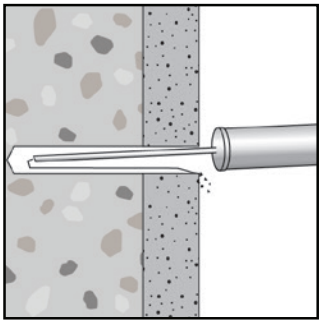
Broad flange prevents the anchor from sinking too deeply into the substrate minimising surface damage

Extended expansion areas for a secure hold

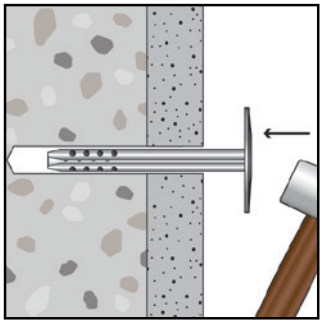
INSTALLATION



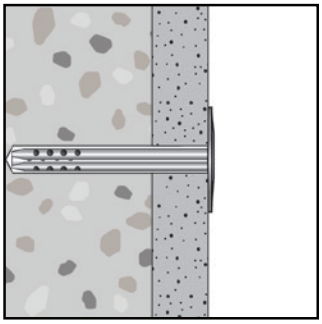
Drill hole through insulation into substrate to the specified diameter and depth.



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

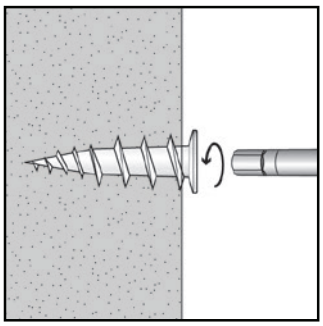
Light duty fixing of:

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

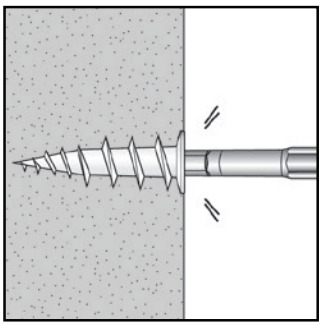
Broad flange head prevents the anchor from sinking too deep into the foam and polystyrene insulation

Aggressive thread provides a secure hold

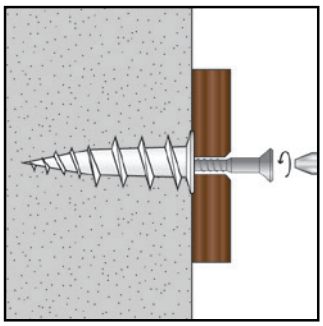
INSTALLATION



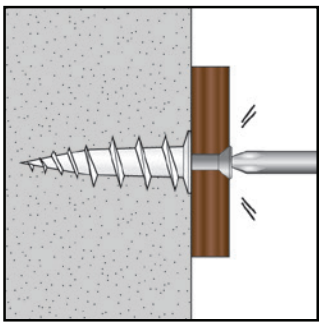
Using the appropriate driver bit, drive the plug into the insulation material.



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

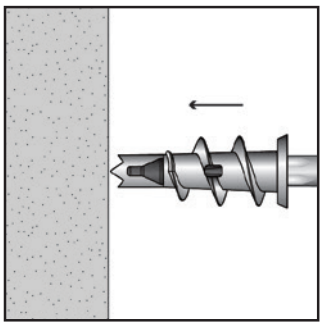
Application / Trades

- Light duty fixings
- Picture hooks

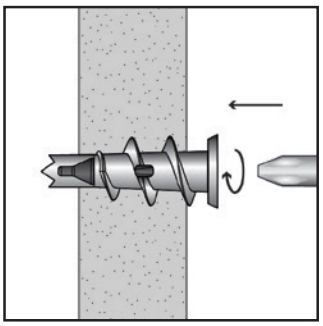
Head shape leaves a flush finish

Aggressive thread provides a secure hold

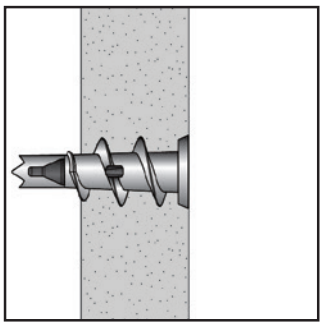
INSTALLATION



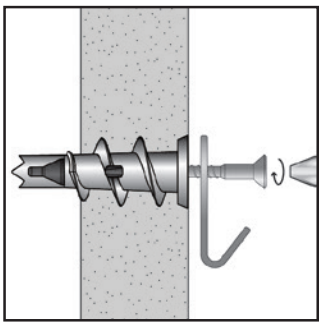
Pierce plasterboard with pluge.



Screw plug in while applying forward pressure.

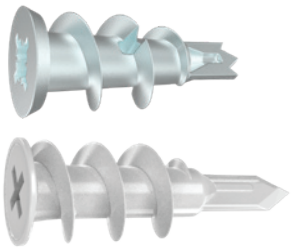


Plug is installed once flange is flush with plasterboard surface.



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

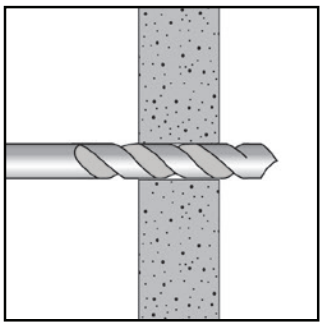
Application / Trades

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

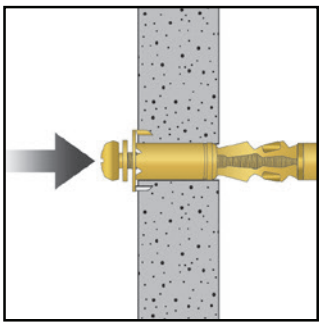
Anti rotation tags prevent the anchor from rotating during setting

Single piece anchor body is retained in wall once set

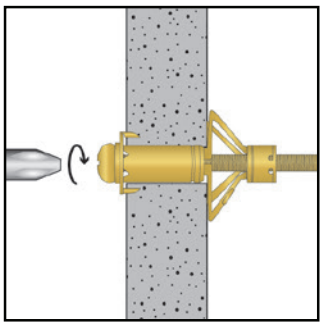
INSTALLATION



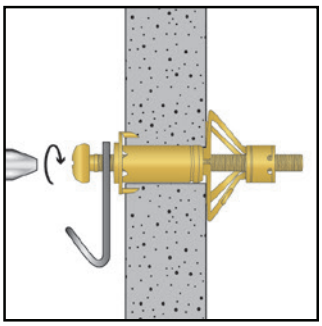
Drill hole through base material at the specified diameter.



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.

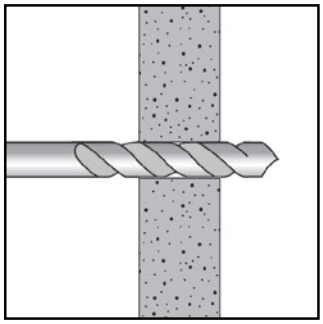


Remove screw, pass it through the fixture then re-install the screw into the anchor body. Carefully tighten until the fixture is secured.

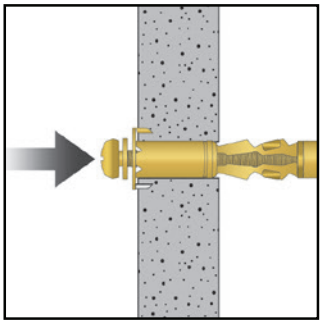
CAVITY WALL ANCHOR

ZINC YELLOW

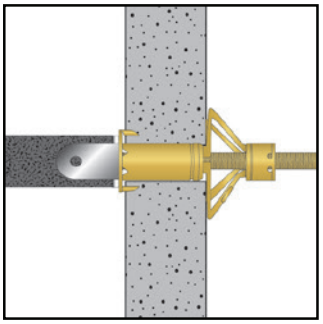
INSTALLATION FOR VOLUME



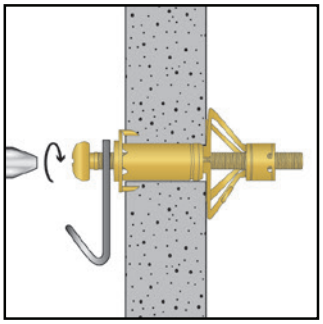
Drill hole through base material at the specified diameter.



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

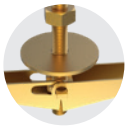
Features & Benefits

- 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

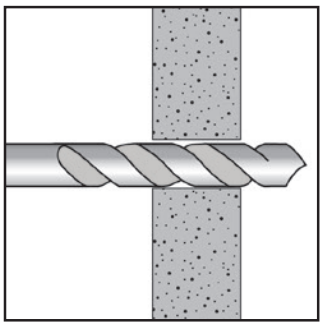
- Light duty fastenings into plasterboard & thin base material with cavity behind

Available in a range of head styles to suit your application

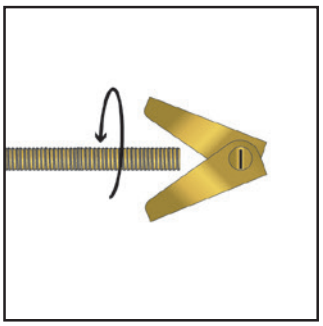


Toggle body distributes load across base material to improve capacity

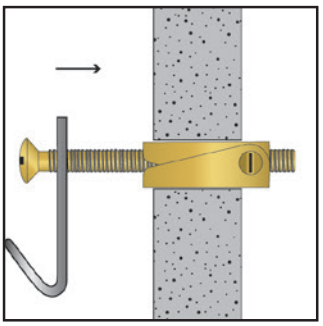
INSTALLATION



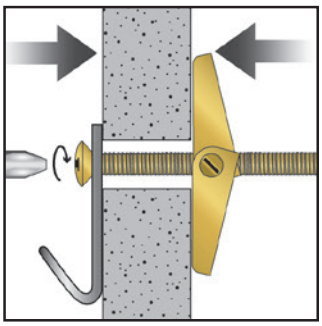
Drill hole through base material at the specified diameter.



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.

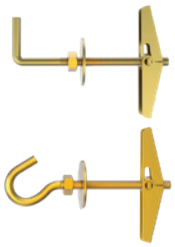
SPRING TOGGLE

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			

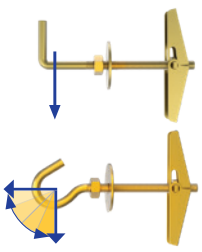
Note: * Capacity for gypsum plasterboard with minimum thickness of 10mm



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

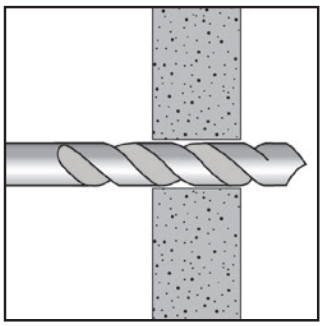
Light duty applications:

- 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

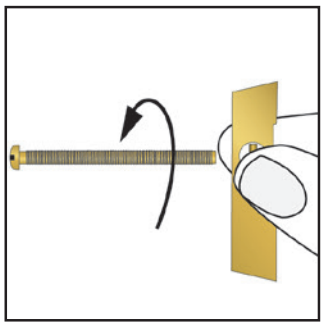
Fully threaded bolt increases fixing versatlility

Toggle body distributes load across base material to improve capacity

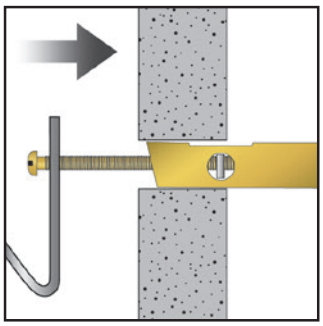
INSTALLATION



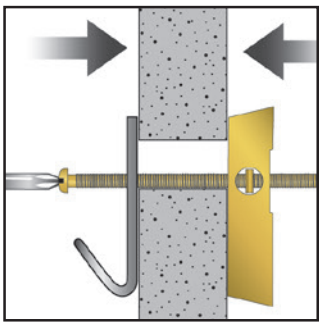
Drill hole through base material at the specified diameter.



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

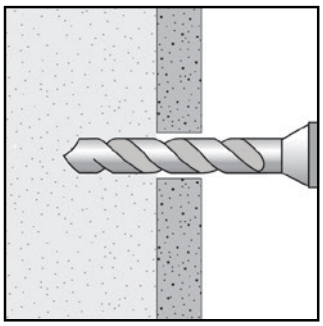
Application / Trades

- Light duty wall hangings

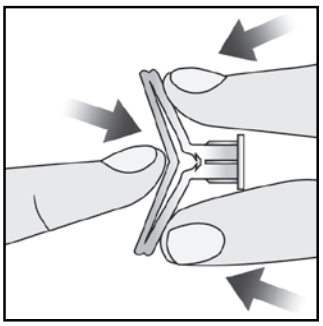
Anti spin lugs designed to prevent the plug from rotating in the hole

Large flange head retains anchor at surface of base material

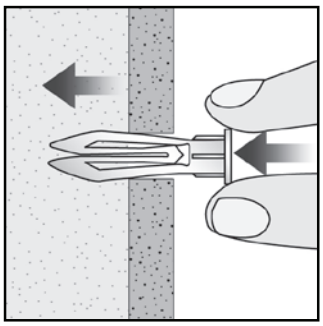
INSTALLATION



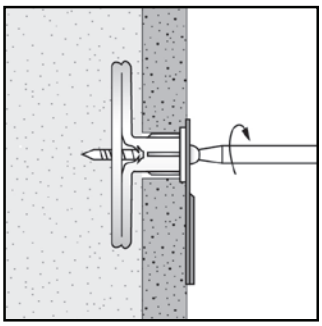
Drill an 8mm diameter hole through the base material.



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

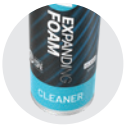
- This Polyurethane expanding foam is economical and convenient to use
- It can be cut, sanded, plastered and painted, has strong adhesion to most surfaces, is durable and will not shrink
- Fills spaces up to 25 times the size of its' can volume

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.

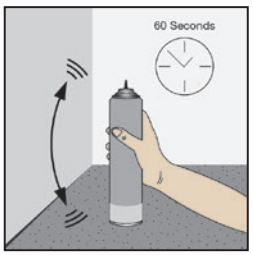
Convenient 750ml size for bigger jobs



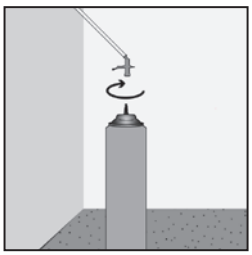
Prepare surfaces and clean up overspray with the versatile cleaner

INSTRUCTIONS FOR USE – FOAMS

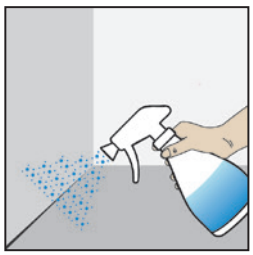
Refer to can label & SDS prior to use.



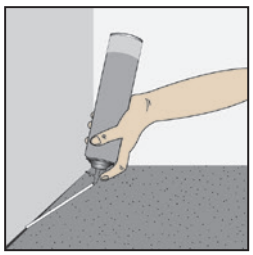
Shake can vigorously for 60 seconds before use. Repeat periodically during use.



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.



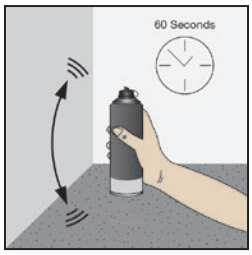
Invert can and gently apply pressure to the top of the actuator to extrude. Apply foam in layers, allowing time between layers for expansion. Lightly mist with water between layers.

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

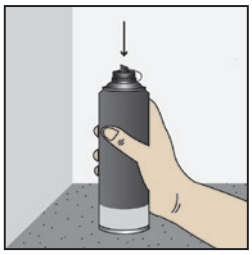
PU EXPANDING FOAM

INSTRUCTIONS FOR USE – CLEANER

Refer to can label & SDS prior to use.

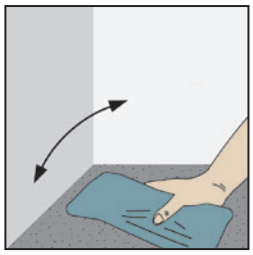


Shake can vigorously for 60 seconds before use. Repeat periodically during use.



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

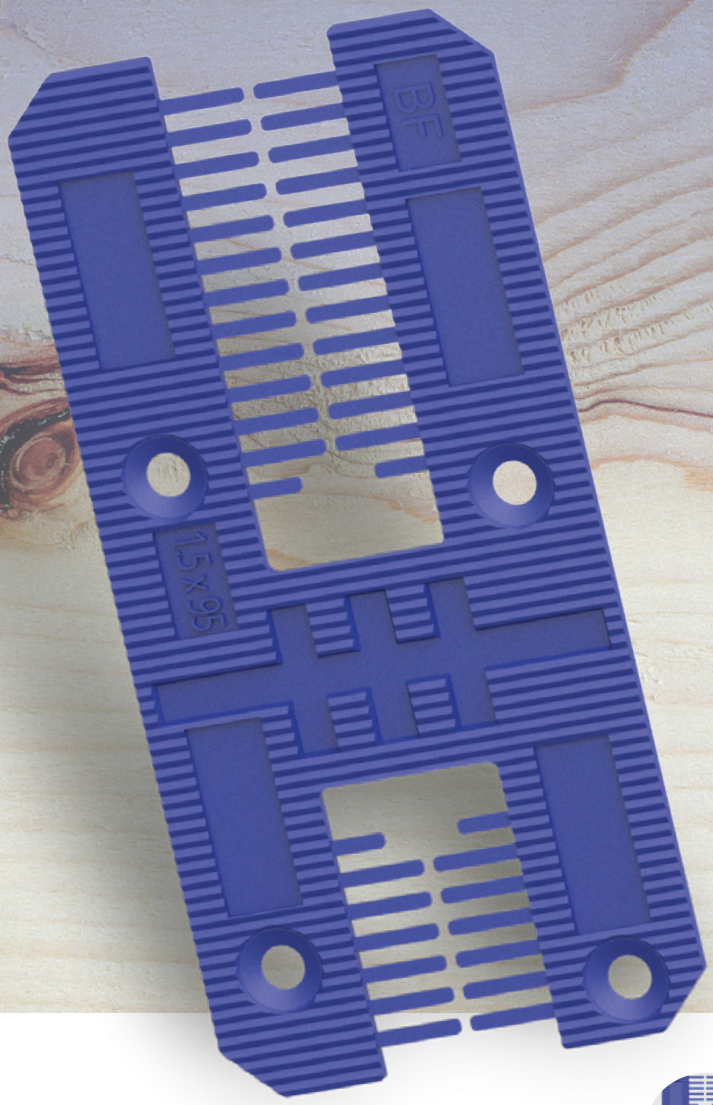
Product Code	Colour	Pack Quantity	Thickness (mm)	Width (mm)	Length (mm)	Slot Width (mm)	Slot Length (mm)	Hole Diameter (mm)
75MM CLAM SHELL								
AWPR0100752M	Red	25	1.0	36	75	12.3	55	4.3
AWPB0150752M	Blue	25	1.5	36	75	12.3	55	4.3
AWPG0320752M	Green	25	3.2	36	75	12.3	55	4.3
AWPO0500752M	Orange	25	5.0	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

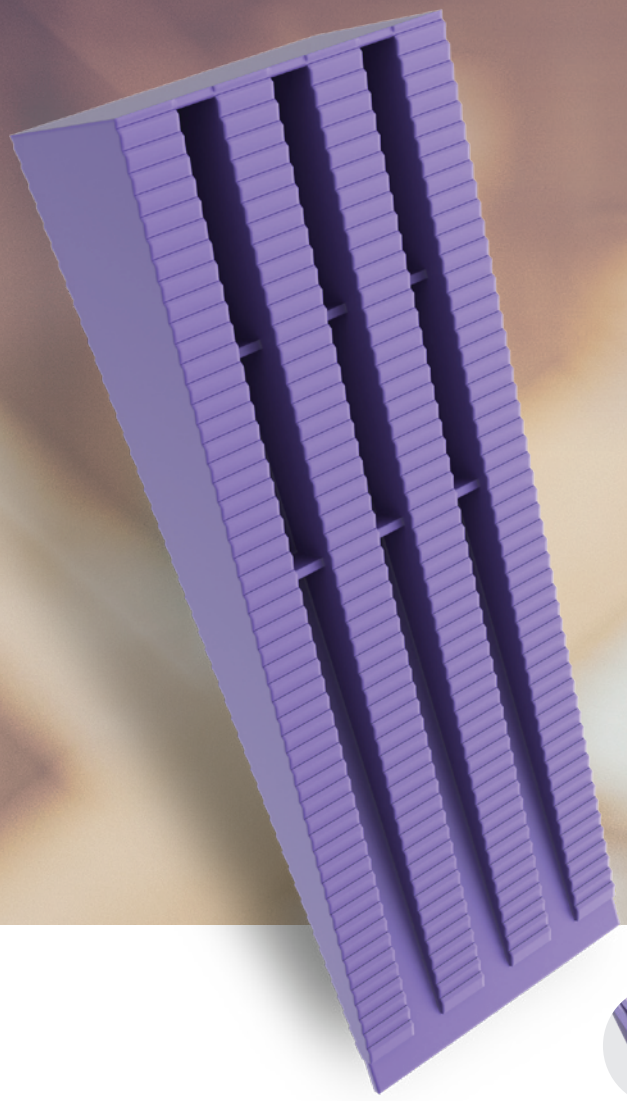
Product Code	Colour	Pack Quantity	Thickness (mm)	Width (mm)	Length (mm)
FULL SHIM					
APSFR011502	Red	144	1	100	150
APSFU021502	Light Blue	80	2	100	150
APSFY031502	Yellow	60	3	100	150
APSFO051502	Orange	40	5	100	150
APSFL101502	Black	20	10	100	150
APSFN151502	Brown	12	15	100	150
APSFM201502	Maroon	10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

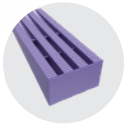


Features & Benefits

- 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

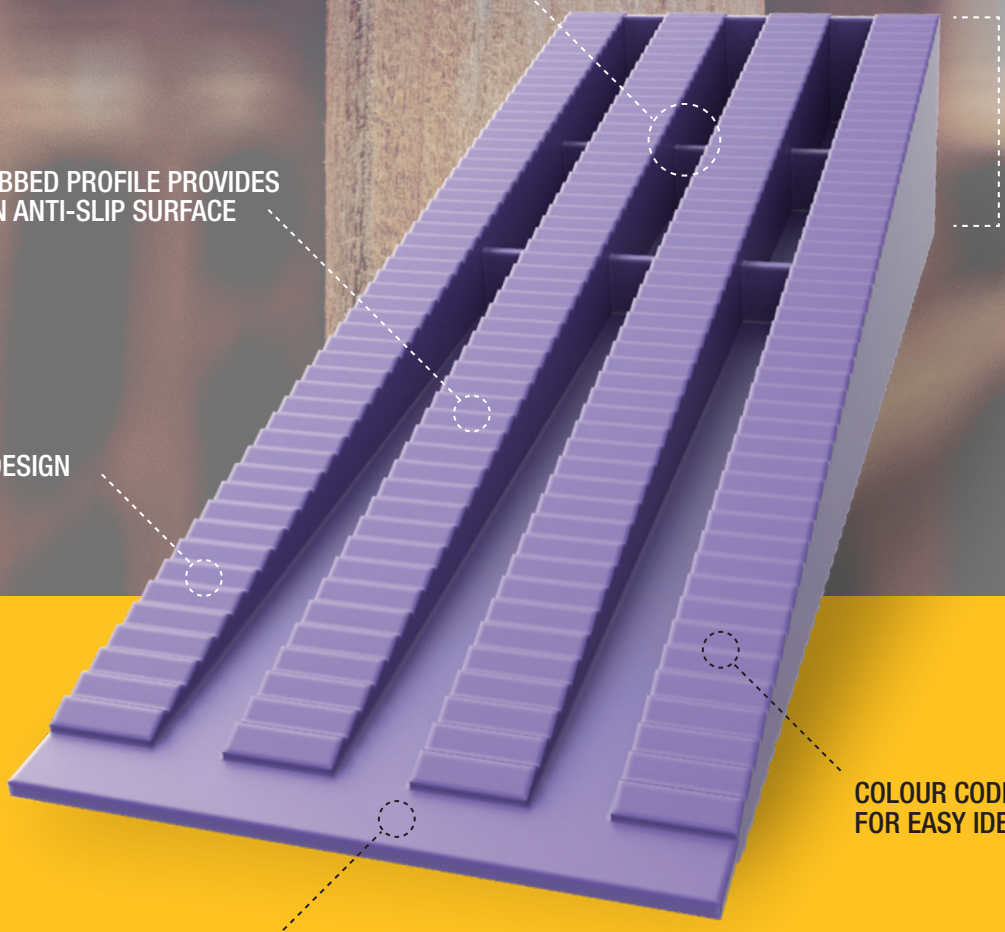
Product Code	Colour	Pack Quantity	Thickness (mm)
BUILDERS WEDGE			
ABWSL10000P	Black - Slotted	50	10
ABWFL10000P	Black	50	10
ABWFN15000P	Brown	30	15
ABWFM20000P	Maroon	20	20
ABWFP22000P	Purple	15	22

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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