BREMICK®

ROOFING SCREW SELECTION & TECHNICAL DATA GUIDE

2022

01/22 - V1

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BREMICK

Proudly Australian, Proudly Family Owned

Established in 1965, Bremick is a family-owned business founded by Michael Hawksford in a small warehouse in Alexandria, Sydney. The business now comprises three core divisions of wholesale products to the pre-engineered buildings, industrial, roofing, construction, petrochemical and retail trade markets, with 15 distribution centres, three manufacturing locations and three quality control laboratories across Australia, New Zealand, and Asia. Today, the vast majority of Australia's Pre-Engineered Buildings, residential metal roofs, skyscrapers, bridges, major mining and critical infrastructure projects have been constructed using Bremick's products.

All Bremick products are subjected to extensive compliance testing at the company's manufacturing plants and at the NATA certified Bremick Test and Inspection Laboratory in Sydney, ensuring strict compliance with both Australian and International Standards. Bremick continually monitors industry trends and end user needs when it comes to product innovation, and its products are used in more critical applications than those of any other fastener supplier in Australia.

Today, Bremick Fasteners is Australia's largest manufacturer and wholesaler of Self Drilling and Steel Framing screws, Petrochemical Studbolts and Fasteners, Industrial Fasteners and Masonry Anchors. Bremick Self Drilling and Steel Framing screws are the product of choice for the majority of Pre-Engineered Building manufacturers and installers in Australia and New Zealand.

Bremick's Revolutionary B8® Coating System provides unrivalled corrosion resistance of more than double that of traditional AS3566.2 Class 4 coatings. Fully Warranted for use in ISO 9223 Category 3,4 & 5 Corrosion zones, Bremick's B8 Coating has been Independently Tested in very severe marine environments at the Bremick outdoor exposure test sites in accordance with AS3566.2. The B8 Technology was first developed for the US Navy where critical components are subjected to extremely corrosive and high wear applications. This technology is now employed by marine engineering, aerospace and automotive entities worldwide including Boeing, US Navy, NATO, Honda, BMW and Rolls Royce.

Bremick's test facilities include a full-service NATA laboratory at our National Distribution Centre, and we have 8 permanent staff undertaking batch testing on all products. Our Self Drilling Screws are hand-drilled for testing to ensure that our customers are receiving the highest quality products and for Research and Development purposes.

Quality

Our products are used in more critical applications than those of any other fastener supplier in Australia. People's lives depend on the quality of our products. All Bremick products are subjected to extensive compliance testing at our manufacturing plants and at the Bremick Test and Inspection Laboratory in Sydney ensuring strict compliance with both Australian and International Standards.

Reliability & Trust

We've been in this business for over 50 years, finding the best supply channels, establishing our own in-house manufacturing, developing the hardest coatings, cultivating the best team of expert staff. We know what we're doing. We've spent years cultivating a great team. You can pick up the phone, anytime and talk to team member about our product specifications, our technical data, our product trades, applications and installations guides. Our team know what they're talking about and can help solve your problem fast.

Innovation

We continually monitor industry trends and end user needs resulting in a constant flow of innovation, bringing real value to our customers.

ROOFING & PROFILES (FIJI) PTE LTD.

Vision

To exceed our customer expectations by providing the best quality, delivery and cost through continuous improvement and customer interaction.

Mission

To be a high value partner for our customers providing them with innovating products, professional support and services while meeting our obligations to society and the environment.

Values

Responsibility: Each employee is responsible for their work.
A people focused: Developing the best leaders and realising the full potential of our people. Capacity building as per the organisation's needs.
Trust and honesty: We conduct ourselves professionally, with respect and integrity.
Cooperation: What one person cannot do, we can accomplish together.
Responsiveness: Prompt response is our advantage.

Heritage

The path to R C Manubhai Group of Companies began in the 1920's with two incredible and visionary entrepreneurs - brothers Dahyabhai V Patel and Raojibhai V Patel. Their pioneering work and sustained growth were the foundations of the company we know today. The brothers, having arrived from Dharmaj (Gujarat State), India, established a humble grocery business in the rural community of Korovuto (I0kms from Ba Town). The business was known as D. V. Patel & Sons. Following the success of the first shop, a second shop was set up in Nabatolu.However, the business had to be closed a few years later.

In mid- I 940's, Raojibhai left the business to seek other opportunities and commenced working as a sales assistant for A. N. Patel & Sons (Ba, Fiji) - one of the pioneers of the Hardware business in Fiji. In 1950 he was later joined by his nephews Manubhai and Jayantibhai and Ramanbhai.

In 1960, Raojibhai and Manubhai setup their own local Grocery and Hardware business named: R. C. Manubhai & Company in Ganga Singh Street, Ba Town. Raojibhai's son,Chandrakant Patel, joined the business in 1962 and became the Managing Director and Chief Executive Officer in 1968 after the passing away of brother Manubhai Patel. The R. C. Manubhai Group became a family owned and run business and thus deep rooted family values.

In 1969, following the success of the grocery and hardware business, the shop was eventually moved to newer larger premises in Ba Market Sub-Division where the company still maintains its corporate head office. The Korovuto store was eventually closed in 1975 following which Jayantibhai joined the family business in Ba Town. In the early days the family was devastated by disastrous fires to the shop followed by numerous hurricanes, cyclones and floods. However despite all the adverse forces, the family focused on building a sustainable future.

By mid-1980's, R. C. Manubhai & Company was doing very well in Hardware, Building Materials and Steel. Manubhai Industries Ltd was set up in 1979 to manufacture foam mattresses. The work force in I 980's was 150. It was during this expansion that the organization changed direction. The board decided to move out of the very competitive grocery business to concentrate on building a strong vertically integrated hardware business to cater for the increasing demand from the growing Construction, Sugar Milling, Mining, Engineering and Utilities sectors.

Over the I 990's and 2000's, the organization continued to expand its operations through opening new retail branches in Suva, Valelevu, Nadi. Tavua, Rakiraki. Labasa and Lautoka. In addition the organization has invested heavily in establishing several local manufacturing facilities and is now the largest manufacturer of foam mattresses wire mesh, roofing sheets, purlins, rainwater goods, water tanks and associated products in Fiji. It has recently diversified into manufacturing of nylon ropes, plastic ware and polystyrene products. In addition the Group is an importer and supplier of glass and mirror products and metallic fasteners.

COMPANY PROFILE

Affiliates

The company has also ventured into other manufacturing units with the first one starting in 1979, with a vision of late Raojibhai V Patel to diversify into other prospective businesses. The company Manubhai Industries Limited was formed and a factory was set up to manufacture Polyurethane Foam Mattresses and related products.

Today, the group has three manufacturing set-ups and two other construction related companies as below:

- Manubhai Industries Ltd. – Set up in 1979, this company is the largest manufacturer of Foam mattresses and related products in Fiji. It has recently diversified into manufacture of Nylon Ropes, Plastic ware and Polystyrene products.
  Website: **www.manubhaiindustries.com.fj**
- CRP Industries Ltd. – Set up in 1992, this company is the largest manufacturer of Wire Mesh and associated products in Fiji. Awarded "FTIB New Exporter of the Year-1999".
  Website: **www.crpindustries.com.fj**
- Roofing & Profiles (Fiji) Ltd. – Set up in 2002, this company is the one of largest manufacturer of Roofing sheets of various profiles, Purlins, Rainwater goods and Water Tanks in Fiji. Awarded "FTIB Emerging Exporter of the Year 2004" and "FTIB Medium Exporter of the Year 2005". This company also has a "MULTIBUILD" division which provides pre-engineered building systems.
  Website: **www.roofingandprofiles.com.fj**
- Glass & Mirror (Fiji) Ltd. – Importers, processors and suppliers of glass and mirror of all different types and Aluminum Fabricators. The company also boasts the only polishing and beveling machine in Fiji.
  Website: **www.glassandmirror.com.fj**
- Ajax Spurway Fasteners Ltd. – Established 34 years ago in conjunction with Ajax GKN Group (UK). The company was initially set-up as distributors of metallic fasteners but now grown from merely a Fasteners company into a well-respected Construction and Engineering supplier. "Ajax" is a wellaccepted and established brand in the market place and has grown in strength, stature and recognition.
  Website: **www.ajaxfasteners.com.fj**

BRA T17 – SELF DRILLING FOR TIMBER

For fastening the crests of corrugated and square rib roof sheeting in cyclonic regions.

BRA – Cyclone assembly for timber & thin metal battens

APPLICATION

One step fastening to crests of roof sheeting (16mm to 145mm rib heights) to timber and thin metal battens.

- SuperDek®
- Corrudek®
- TileDek®
- Multispan®
- 1Degree®

INSTALLATION RECOMMENDATIONS

For best results use a power screw driver with variable speed from 1000 to 1500 RPM.

When fastening to timber (JD3 min.) ensure a minimum embedment of 29mm.

Metal battens 0.75mm BMT G550 min.

The use of battery screw drivers will significantly decrease drilling speed. Only use Bremick Drive Bits.

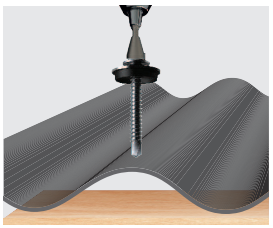
In cyclonic regions consult design professionals for fastener spacing.

SUPPLIED IN B8® REVOLUTIONARY PROTECTION COATING

SETTING INSTRUCTIONS

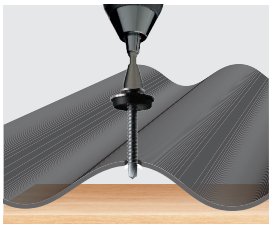
1. Position

Fit screw head into drive socket and locate screw point at centre of sheet rib. (BRA Cyclone washer can accommodate up to 11 degrees of axial misalignment)



2. Drill

With a power screw driver commence drilling at “slow speed” to pierce sheeting.



3. Set

Maintaining a firm down pressure increase the drive speed to penetrate the base material. Continue driving until the BRA washer seats firmly.

Product Code	Size (mm)	TPI	Thread	Product Features	Hexagonal Driver	Pack Quantity
STHC814050D*	14g x 50	10	Full	B8, W	3/8”	250
STHC814065D*	14g x 65	10	Full	B8, W	3/8”	250
STHC814075B*	14g x 75	10	Part	B8, W, SP	3/8”	250
STHC814090B	14g x 90	10	Part	B8, W, SP	3/8”	250

*Available ex-stock

BRA T17 – CYCLONE ROOFING ASSEMBLIES

Bremick Roofing Assemblies (BRA) are preassembled fasteners that are tested and approved for crest fastening metal roofing profiles in Cyclonic regions. The unique BRA Cyclone washer is suitable for use with most common roofing profiles and is available with universal screws, metal drilling screws or Type 17 timber drilling screws.

Vortex™ Cyclone, Type 17 and metal drilling versions readily available. Suitable for corrugated, square rib & broad sheet roofing profiles.

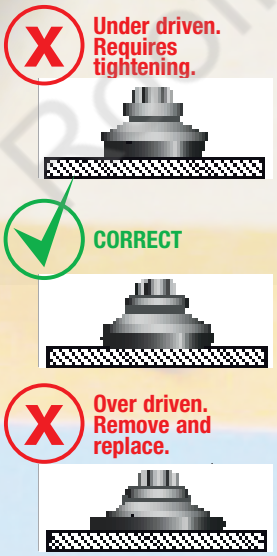
25mm diameter marine grade aluminium / EPDM
UNIVERSAL BRA CYCLONE
washer (specifically designed cyclone washer)

SELF DRILLING
for metal screw for fastening to timber battens and thin metal battens

AVAILABLE IN
lengths 50mm – 175mm, profile heights 16mm – 145mm and in all Colorbond colours

Tested & certified to **AS/NZS 1170.2 & BCA 2008 SPEC B 1.2**
for the design of buildings in cyclonic areas

Accepted for inclusion in the NT Deemed to Comply Manual. Fully covered by the Bremick Performance Warranty.



30% FASTER DRILLING
Than conventional Class 4

2x PROTECTION
Double the Corrosion protection of conventional Class 4 in category 5 environments

8x TOUGHER
Than conventional Class 4 Extremely abrasion resistant. Minimal coating loss during installation.

BRA SDM – SELF DRILLING FOR METAL

For fastening the crests of corrugated and square rib roof sheeting to steel purlins in cyclonic regions.

BRA – Cyclone assembly for steel to steel purlins

APPLICATION

One step fastening to crests of roof sheeting (16mm to 150mm rib heights) to G450 Galvanised steel purlins up to 6.5mm thick.

- SuperDek®
- Corrudek®
- TileDek®
- Multispan®
- 1Degree®

Minimum Purlin thickness, BMT, 1.0mm

INSTALLATION RECOMMENDATIONS

For best results use a power screw driver with variable speed from 2000 to 2500 RPM.

When used in cyclonic regions the minimum base material specification shall be, Steel Purlins 1.5mm BMT G450 min.

The use of battery screw drivers will significantly decrease drilling speed. Only use Bremick Drive Bits.

In cyclonic regions consult design professionals for fastener spacing.

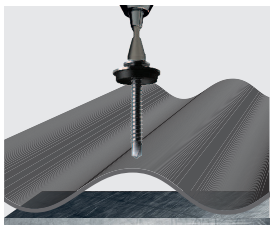
REVOLUTION B8® COATING

SUPPLIED IN B8® REVOLUTIONARY PROTECTION COATING

SETTING INSTRUCTIONS

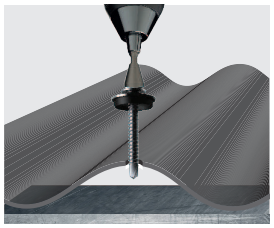
1. Position

Fit screw head into drive socket and locate screw point at centre of sheet rib. (BRA Cyclone washer can accommodate up to 11 degrees of axial misalignment)



2. Drill

With a power screw driver commence drilling at “slow speed” to pierce sheeting.



3. Set

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Product Code	Size (mm)	TPI	Thread	Product Features	Hexagonal Driver	Pack Quantity
SMHC814050D	14g x 50	10	Full	B8, W	3/8”	250
SMHC814065D	14g x 65	10	Full	B8, W, TG	3/8”	250
SMHC814075B	14g x 75	10	Part	B8, W, SP	3/8”	250
SMHC814095B	14g x 95	10	Part	B8, W, SP	3/8”	250

BRA SDM – CYCLONE ROOFING ASSEMBLIES

Bremick Roofing Assemblies (BRA) are preassembled fasteners that are tested and approved for crest fastening metal roofing profiles in Cyclonic regions. The unique BRA Cyclone washer is suitable for use with most common roofing profiles and is available with universal screws, metal drilling screws or Type 17 timber drilling screws.

Vortex™ Cyclone, Type 17 and metal drilling versions readily available. Suitable for corrugated, square rib & broad sheet roofing profiles.

25mm diameter marine grade aluminium / EPDM
UNIVERSAL BRA CYCLONE
washer (specifically designed cyclone washer)

SELF DRILLING
for metal screw for fastening to steel purlins up to 6.5mm thick

AVAILABLE IN
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Than conventional Class 4

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Double the Corrosion protection of conventional Class 4 in category 5 environments

8x TOUGHER
Than conventional Class 4 Extremely abrasion resistant. Minimal coating loss during installation.

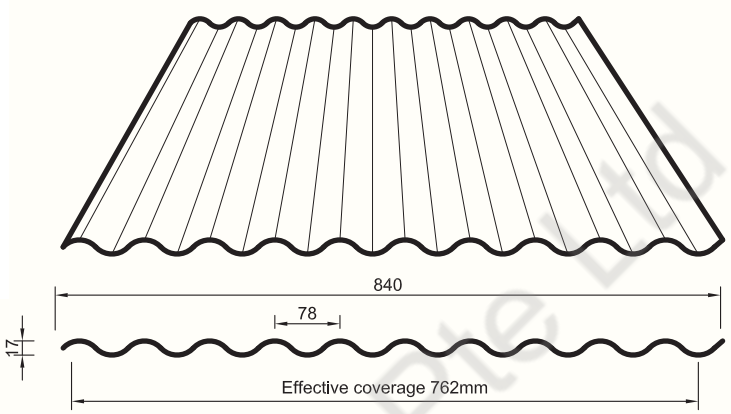
CLADDING FASTENING IN CYCLONIC AREAS

Roofing Profiles

CorruDek®

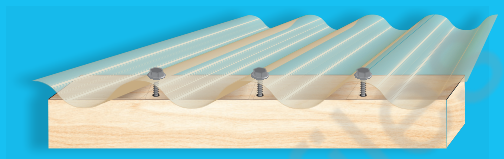
Fastening corrugated roofing profiles
Rib height – 16mm to 20mm
E.g. CorruDek® (Rib height 17.5mm)
(Not inclusive of insulation)

Conformance Standard AS 3566

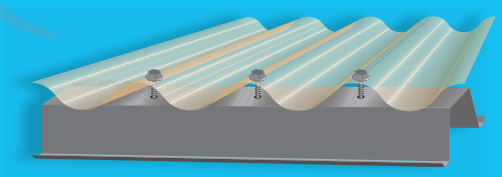


FOR CYCLONIC REGION SCREW ON EVERY RIB.

CORRUGATED ROOFING PROFILES



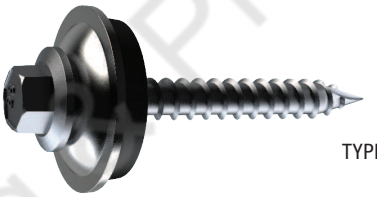
TO TIMBER BATTENS



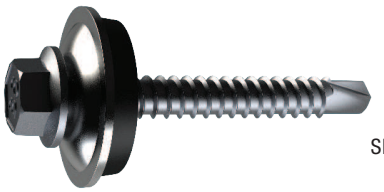
TO STEEL PURLINS UP TO 4.5MM THICK

CREST FIXING

(Roofing)



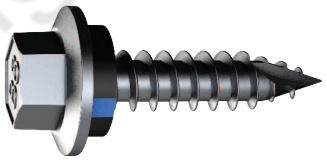
14x65mm
TYPE 17 HEX HEAD
BRA SEAL
TPI: 10



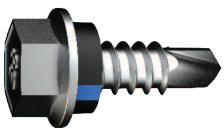
14x65mm
SDM HEX HEAD
BRA SEAL
TPI: 10

VALLEY FIXING

(Walling)



14x40mm
TYPE 17 HEX HEAD
WITH SEAL
TPI: 10

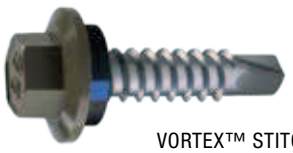


14x22mm
SDM HEX HEAD
WITH SEAL
TPI: 20

Important Note:

1. Bremick Roofing Assemblies(BRA) & (BRA-TYPE 17) are preassembled fasteners that are tested and approved for crest fastening metal roofing profiles in cyclonic regions.
2. Bremick screws are manufatured and tested after every batch is manufatured.
3. RPFL recommends only trained roofers for installation of screws.
4. If correct installation procedure is Not followed, metal screw tips may break.
5. RPFL will not be liable for replacement of any screw tip breakage due to wrong installation hence will not provide any replacements.

10x16mm
SDM HEX HEAD WITH SEAL
TPI: 16

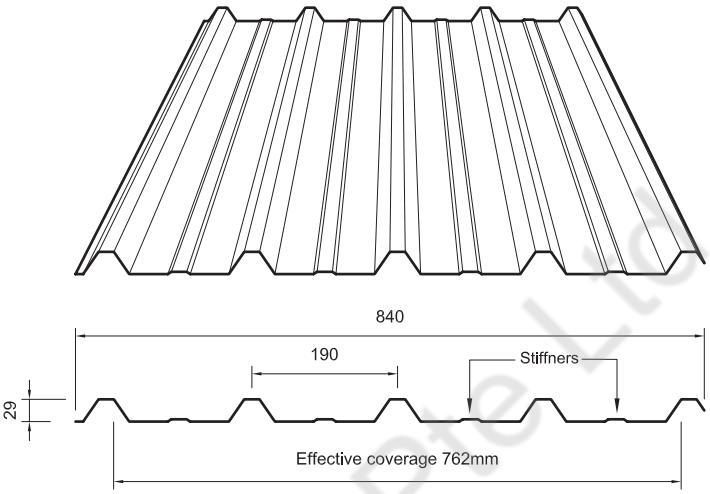


M6.5x20mm
VORTEX™ STITCH HEX HEAD WITH SEAL
TPI: 13

SuperDek®

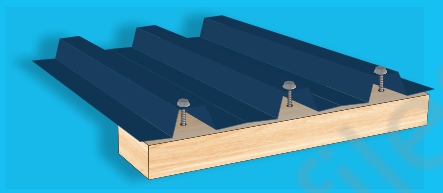
Fastening square rib broad sheet roofing profiles. Rib height – 27mm to 30mm E.g. SuperDek® (Rib height 29mm)
(Not inclusive of insulation)

Conformance Standard AS 3566

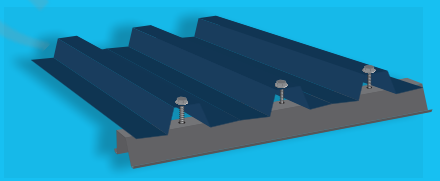


FOR CYCLONIC REGION SCREW ON EVERY RIB.

SQUARE RIB BROAD SHEET ROOFING PROFILES

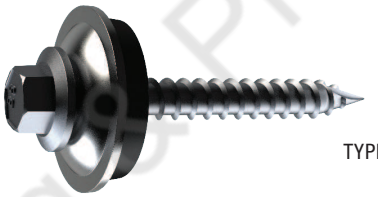


TO TIMBER BATTENS

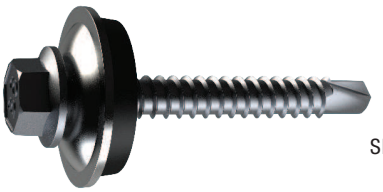


TO STEEL PURLINS UP TO 4.5MM THICK

CREST FIXING
(Roofing)

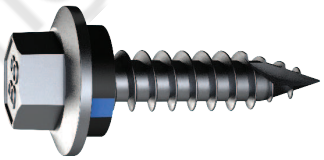


14x75mm
TYPE 17 HEX HEAD
BRA SEAL
TPI: 10

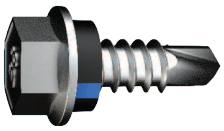


14x65mm
SDM HEX HEAD
BRA SEAL
TPI: 10

VALLEY FIXING
(Walling)



14x40mm
TYPE 17 HEX HEAD
WITH SEAL
TPI: 10



14x22mm
SDM HEX HEAD
WITH SEAL
TPI: 20

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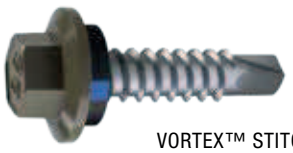
10x16mm
SDM HEX HEAD WITH SEAL
TPI: 16

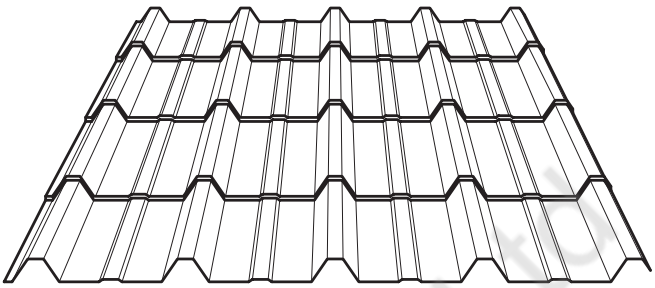


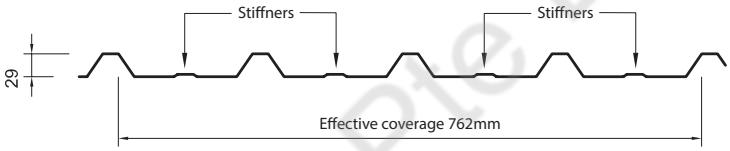
M6.5x20mm
VORTEX™ STITCH HEX HEAD WITH SEAL
TPI: 13

TileDek®

Fastening square rib broad sheet roofing profiles. Rib height – 27mm to 30mm E.g. TileDek® (Rib height 29mm)
(Not inclusive of insulation)

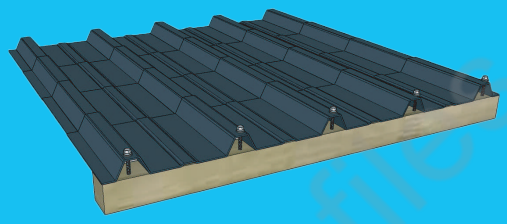
Conformance Standard AS 3566



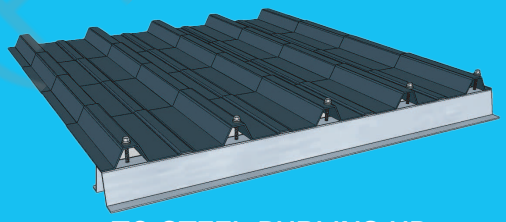


FOR CYCLONIC REGION SCREW ON EVERY RIB.

SQUARE RIB BROAD SHEET ROOFING PROFILES

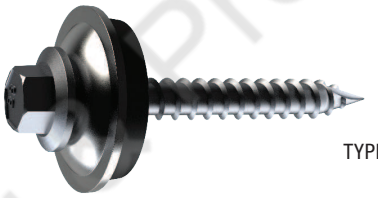


TO TIMBER BATTENS

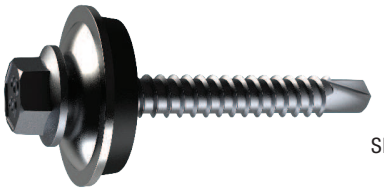


TO STEEL PURLINS UP TO 4.5MM THICK

CREST FIXING
(Roofing)

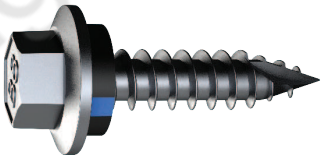


14x75mm
TYPE 17 HEX HEAD
BRA SEAL
TPI: 10

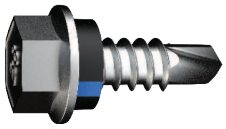


14x65mm
SDM HEX HEAD
BRA SEAL
TPI: 10

VALLEY FIXING
(Walling)



14x40mm
TYPE 17 HEX HEAD
WITH SEAL
TPI: 10

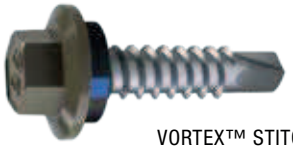


14x22mm
SDM HEX HEAD
WITH SEAL
TPI: 20

Important Note:

1. Bremick Roofing Assemblies(BRA) & (BRA-TYPE 17) are preas-sembled fasteners that are tested and approved for crest fastening metal roofing profiles in cyclonic regions.
2. Bremick screws are manufatured and tested after every batch is manufatured.
3. RPFL recommends only trained roofers for installation of screws.
4. If correct installation procedure is Not followed, metal screw tips may break.
5. RPFL will not be liable for replacement of any screw tip breakage due to wrong installation hence will not provide any replacements.

10x16mm
SDM HEX HEAD WITH SEAL
TPI: 16



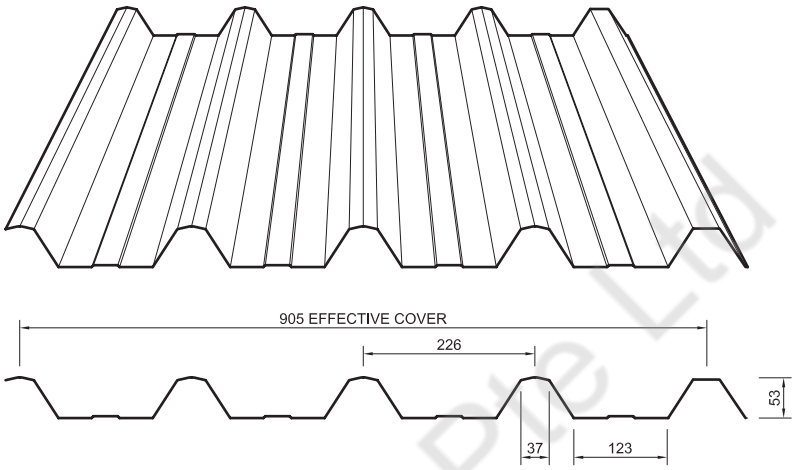
M6.5x20mm
VORTEX™ STITCH HEX HEAD WITH SEAL
TPI: 13

Multispan®

Fastening square rib broad sheet roofing profiles. Rib height – 27mm to 30mm. E.g. Multispan® (Rib height 29mm)

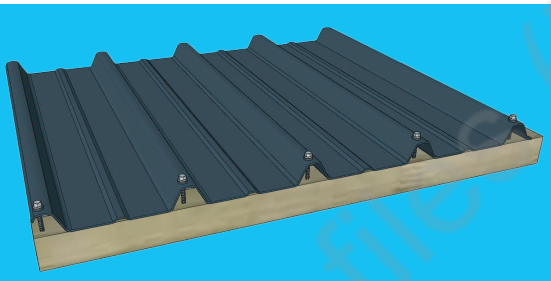
(Not inclusive of insulation)

Conformance Standard AS 3566

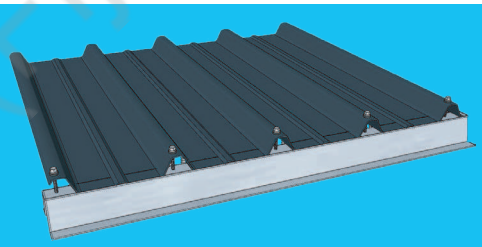


FOR CYCLONIC REGION SCREW ON EVERY RIB.

SQUARE RIB BROAD SHEET ROOFING PROFILES



TO TIMBER BATTENS



TO STEEL PURLINS UP TO 4.5MM THICK

CREST FIXING

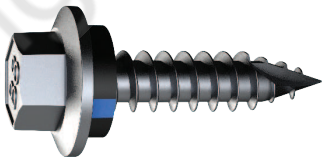
(Roofing)

14x90mm
TYPE 17 HEX HEAD
BRA SEAL
TPI: 10

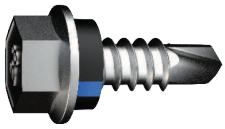
14x90mm
SDM HEX HEAD
BRA SEAL
TPI: 10

VALLEY FIXING

(Walling)



14x22mm
TYPE 17 HEX HEAD
WITH SEAL
TPI: 20



14x22mm
SDM HEX HEAD
WITH SEAL
TPI: 20

Important Note:

1. Bremick Roofing Assemblies(BRA) & (BRA-TYPE 17) are preas-sembled fasteners that are tested and approved for crest fastening metal roofing profiles in cyclonic regions.
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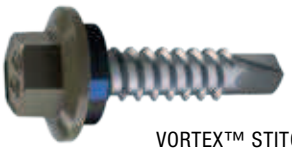
10x16mm
SDM HEX HEAD WITH SEAL
TPI: 16

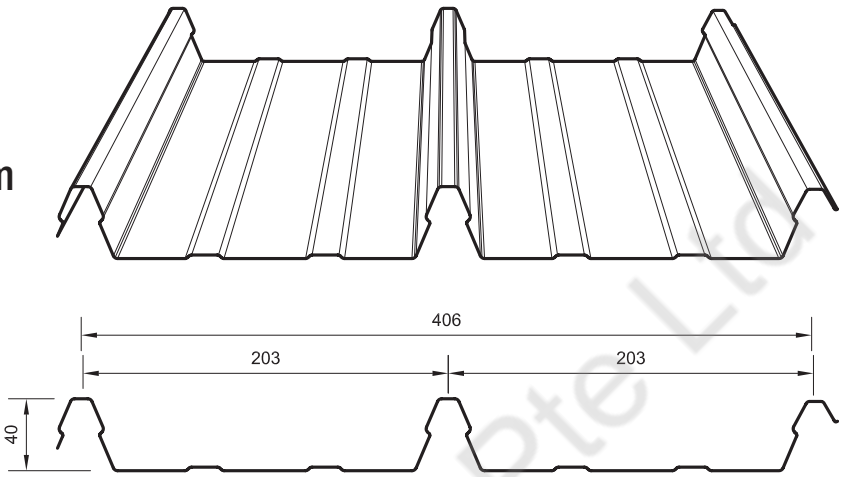


M6.5x20mm
VORTEX™ STITCH HEX HEAD WITH SEAL
TPI: 13

1Degree®

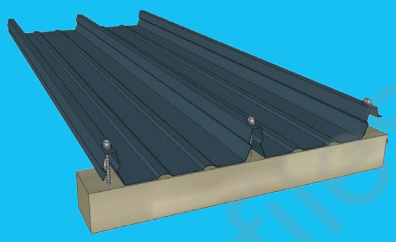
Fastening square rib broad sheet roofing profiles. Rib height – 27mm to 30mm. E.g. 1Degree® (Rib height 29mm)
(Not inclusive of insulation)

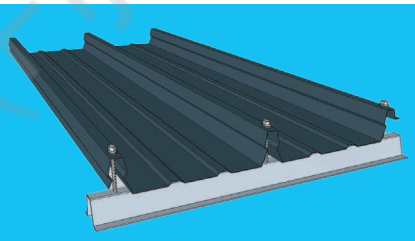
Conformance Standard AS 3566



FOR CYCLONIC REGION SCREW ON EVERY RIB.

SQUARE RIB BROAD SHEET ROOFING PROFILES


TO TIMBER BATTENS

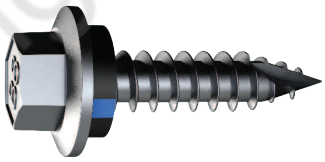

TO STEEL PURLINS UP TO 4.5MM THICK

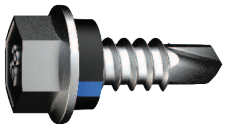
CREST FIXING
(Roofing)


14x95mm
TYPE 17 HEX HEAD
BRA SEAL
TPI: 10


14x90mm
SDM HEX HEAD
BRA SEAL
TPI: 10

VALLEY FIXING
(Walling)


14x22mm
TYPE 17 HEX HEAD
WITH SEAL
TPI: 20


14x22mm
SDM HEX HEAD
WITH SEAL
TPI: 20

Important Note:

1. Bremick Roofing Assemblies(BRA) & (BRA-TYPE 17) are preassembled fasteners that are tested and approved for crest fastening metal roofing profiles in cyclonic regions.
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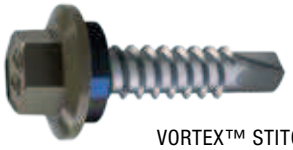
10x16mm
SDM HEX HEAD WITH SEAL
TPI: 16


M6.5x20mm
VORTEX™ STITCH HEX HEAD WITH SEAL
TPI: 13

VORTEX™ FIBREGLASS

For fastening the crests of fibre glass translucent roof sheeting to steel purlins.

APPLICATION

One Step fastening of fibre glass roof sheeting (16mm to 35mm rib height) to steel purlins up to 2.4mm thick. Suitable for use with:

- SuperDek®
- Corrudek®
- TileDek®
- Multispan®
- 1Degree®
- Santoprene DEKS® seal

INSTALLATION RECOMMENDATIONS

For best results use a power screw driver with variable speed with an initial drive speed of 1000 to 1500 RPM. For thick steel, 2000 to 2500 RPM.

Only use Bremick 5/16 Drive Bits. Consult sheeting manufacturer for fastener spacings.

FEATURES

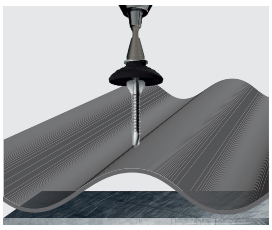
- Cutting fins automatically form expansion hole and self centres screw during installation. Cutting installation time in half.
- Armourcoat® protection to AS 3566 Class 4.
- 32mm diameter Weatherseal sealing washer for water tight and secure fastening.
- High visibility roof safe seal highlights non trafficable sky light zones.
- Fully covered by Bremick performance warranty.

SUPPLIED IN B8® REVOLUTIONARY PROTECTION COATING

SETTING INSTRUCTIONS

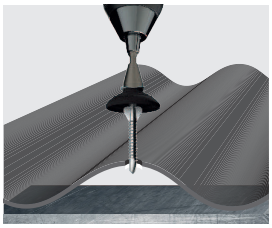
1. Position

Fit screw head into drive socket and position screw point at centre of sheet rib.



2. Drill

With a power screw driver commence drilling at “slow speed” to allow screw to cut a clean expansion hole in the sheeting.



3. Set

Maintaining a firm down pressure increase drive speed and continue driving until the washer seats firmly. Do not over drive.

Product Code	Size (mm)	TPI	Hexagonal Driver	Pack Quantity
SMHC812065G	12g x 65	14	5/16”	250
TMHC812065G	12g x 65	14	5/16”	100
SMHC812085G	12g x 85	14	5/16”	250

Axial Withdrawal Forces for Metal Battens & Studs, Steel Purlins & Steel Supports

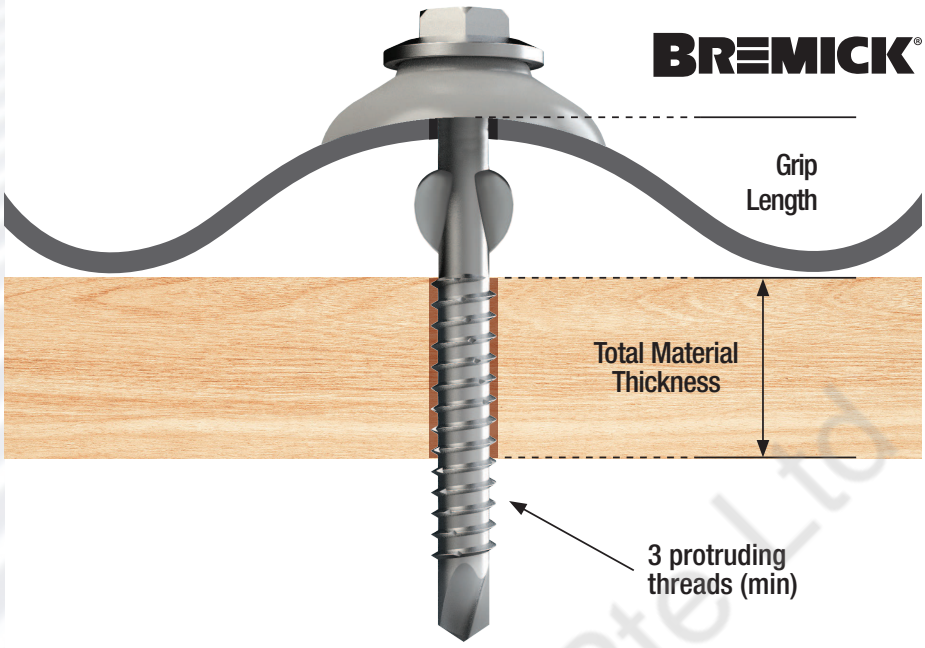
Mean Ultimate Pull Out Force KN – Metal Battens			
Product	0.55mm BMT G550	0.75mm BMT G550	1.0mm BMT G550
M6.2-14	1.1	1.9	2.7

Mean Ultimate Pull Out Force KN – Steel Purlins		
Product	1.2mm BMT G450	1.5mm BMT G450
M6.2-14	3.6	4.5

Axial Withdrawal Forces for Timber

Mean Ultimate Pull Out in F5/JD4 Timber (Radiata Pine)Embedment Depth			
Product	25mm	30mm	35mm
M6.2-14	3.1	4.7	6.2

Mean Ultimate Pull Out in F17/J3 Timber (Hardwood) Embedment Depth			
Product	25mm	30mm	35mm
M6.2-14	3.8	4.7	6.2



Incorrect Installation
Over driving causes the seal to deform, allowing water to penetrate.

Note: The above data represents characteristic capabilities obtained under laboratory conditions and are only applicable to Bremick products. The design professional must apply appropriate safety factors.

Hex head provides traceability, consistency and stable driving.

Deks 26mm Poly Carbonate engineered washer for a watertight seal

Cutting Fins Automatically form expansion hole and self centre screw during installation.

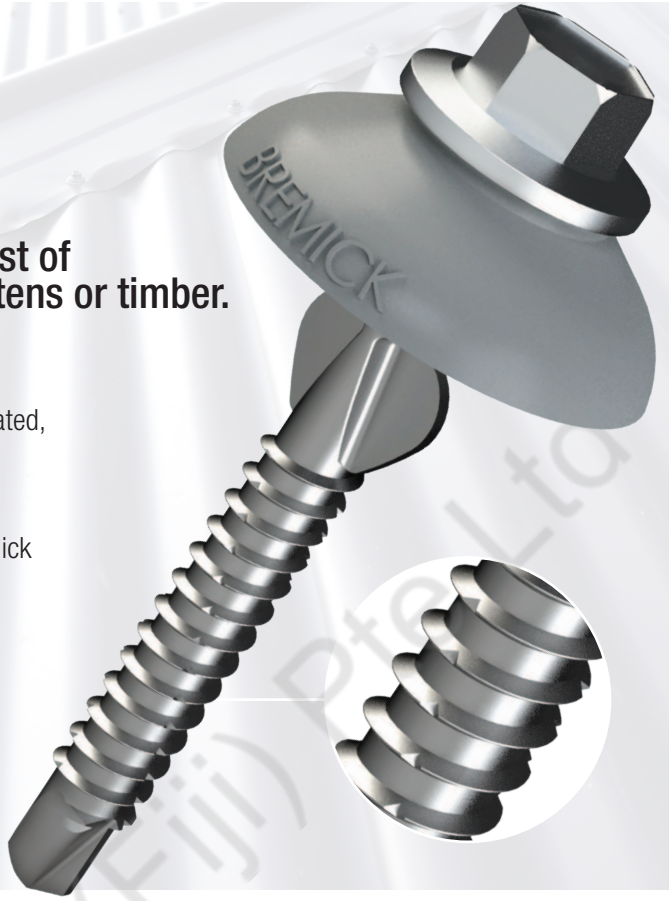
Fluted Thread quickly clears out swarf, providing smooth, consistent installation.

Vortex™ Patented Universal Drill Point suitable for fastening to thin metal battens, steel purlins up to 1.5mm thick and timber.

Product Description	Single Shear (KN)	Axial Tensile (KN)	Torsional (Nm)	Maximum Drilling Capacity	Expansion Hole Diameter (Min)
M6.2 x 50mm with Polycarb Seal B8® Coating TPI: 14	11.4	19.5	21	1.5mm	10mm
	11.4	19.5	21	1.5mm	10mm
	11.4	19.5	21	1.5mm	10mm
M6.2 x 65mm with Polycarb Seal B8® Coating TPI: 14	11.4	19.5	21	1.5mm	10mm
	11.4	19.5	21	1.5mm	10mm
	11.4	19.5	21	1.5mm	10mm

VORTEX™ POLY

Universal Roofing Screw for fastening the crest of polycarbonate roof sheeting to thin metal battens or timber.



APPLICATION

One Step fastening of corrugated and square rib sheeting. Eg. Corrugated, Greca & 5 Rib. Suitable for use with:

- Profile rib heights 16mm to 29mm
- Outdoor Class 4 protection to AS 3566
- Available in 50mm and 65mm lengths. Fully covered by the Bremick Performance Warranty.
- SuperDek®
- Corrudek®
- TileDek®
- Multispan®
- 1Degree®

Note: This product is not a stocked item but can be ordered on special order.

INSTALLATION RECOMMENDATIONS

For best results use a power screw driver with variable speed. When fastening into timber battens use 65mm screw for profile rib heights greater than 20mm.

For best results initial drive speed should be:
– 1000 to 1500 RPM for timber.
– 2000 to 2500 RPM for steel.

Only use Bremick Drive 5/16 Drive Bits. Consult sheeting manufacturer for fastener spacings.

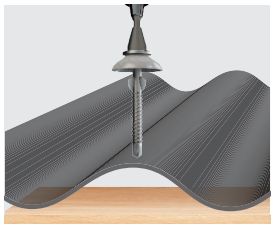
SUPPLIED IN B8® REVOLUTIONARY PROTECTION COATING

SETTING INSTRUCTIONS

1. Position

Install socket into power screw driver. Fit screw head into drive socket & locate screw point at crest of sheet rib.

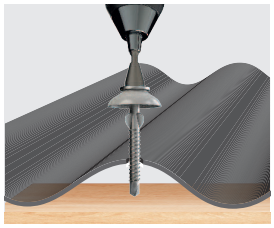
Apply moderate downward pressure onto the roof sheet.



2. Drill

Commence drilling at “slow speed” to allow screw to cut a clean expansion hole in the sheeting.

Maintaining a firm downward pressure, increase drive speed & continue driving until the Polycarb washer seats firmly.



3. Set

Ensure the washer creates a water tight seal with the crest of the Poly Carb sheet.

If over driven, the washer will deform &/ or have a gap between the roof sheet & the washer. Reverse out screw to create watertight seal.

Correct Installation – Watertight Seal

Product Description	Pack Quantity	Product Code	Hex Driver	Screw Length	Grip Length (Min)	Shank Diameter (mm)	Threads per Inch
M6.2 x 65mm with Polycarb Seal B8® Coating TPI: 14	30	HUHT862065P	5/16	65mm	5mm	6.2	14
	100	TUHT862065P	5/16	65mm	5mm	6.2	14
	250	SUHT862065P	5/16	65mm	5mm	6.2	14
M6.2 x 90mm with Polycarb Seal B8® Coating TPI: 14	30	HUHT862065P	5/16	90mm	15mm	6.2	14
	100	TUHT862065P	5/16	90mm	15mm	6.2	14
	250	SUHT862065P	5/16	90mm	15mm	6.2	14

NATA Accredited Lab

We take pride in our uncompromising commitment to quality throughout the manufacturing processes and in our finished products.

All Bremick products are subjected to extensive compliance testing at our manufacturing plants and at the Bremick Test and Inspection Laboratory in Sydney, ensuring strict compliance with **both Australian and International Standards.**

Bremick's Quality Team operates its own National Association of Testing Authorities (NATA) accredited facility at the companies National Distribution Centre in Sydney. It is a fully equipped metallurgical laboratory capable of undertaking the **highly specialised testing procedures mandated by Bremick's Quality Assurance Program.**

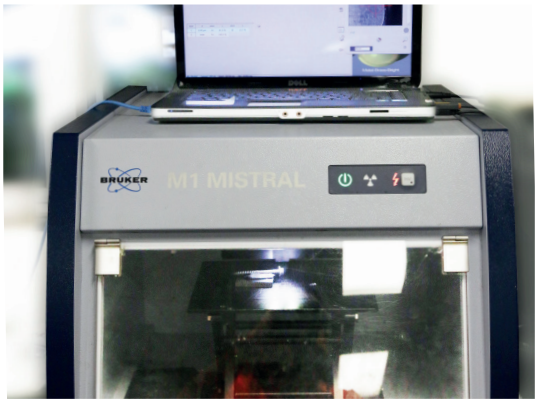
We ensure our products meet the requirements of all Australian Standards and customer specifications.

To ensure that Bremick products meet and exceed industry standards the company continues to make considerable investment in laboratory instruments and equipment. Bremick's in-house metallurgists use the very latest macro and micro graphic equipment to enable extensive analysis of material structures and mechanical properties.

All test data and inspection records are audited by NATA in accordance with the Bremick Quality Manual. This process facilitates total traceability prior to approval and certification of the final product.

Bremick's Laboratory Accreditation is in accordance with N**ational Association Testing Authorities Scheme AS ISO/IEC 17025.**

NATA Accredited Lab



XFR machine Test

The X-Ray Fluorescent spectrometer determines the chemical composition of steel.

It also determines the thickness and chemical composition of the protective coatings.

For example it can instantly determine if a Stainless Steel fastener has been made from grade 302, 304 or 316 steel.

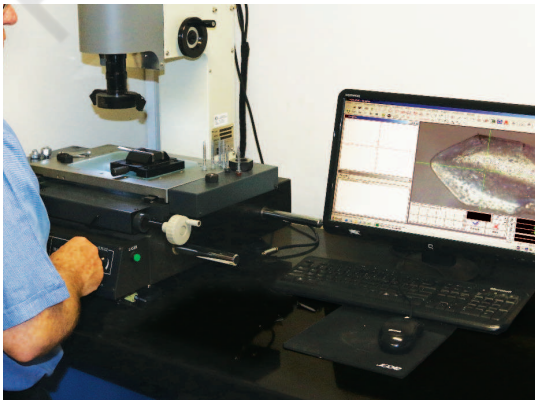
Vickers Hardness Test

The Vickers hardness test checks that core and case hardness of the screw complies with Australian Standards.

The ductility of the steel is also checked to ensure screw shanks do not shear when construction materials expand in the heat.

Rockwell Hardness Test

This is a hardness scale test measuring the depth of an indentation under load made on the fastener material to ensure the hardness complies with the Australian standard.



Scanning Microscope

The Scanning Microscope is used to accurately measure Fastener dimensions to ensure that they comply with the original technical drawings.

Certification

Bremick provides Certification on all its fastening systems.

For Bremick Structural Bolting and Stud bolting, batch-specific Conformance Certification is provided complete with critical Quality Assurance information including full chemical, mechanical and dimensional properties through to mill certification and conformance criteria.

These Certificates also confirm the steel alloy by X-Ray Fluorescence Spectrometry (XRF) and the mechanical properties by third-party NATA Test Certificate numbers and results that are traceable to independent testing bodies.

All Bremick Stud bolting is subjected to rigorous conformance testing throughout the manufacturing process together with extensive compliance testing of the finished product at the Bremick NATA Accredited Test and Inspection laboratory in Sydney. Bremick provides Certificates for individual assemblies, using batch identification numbering together with manufacturers marking. This enables full traceability from raw materials to delivered goods.

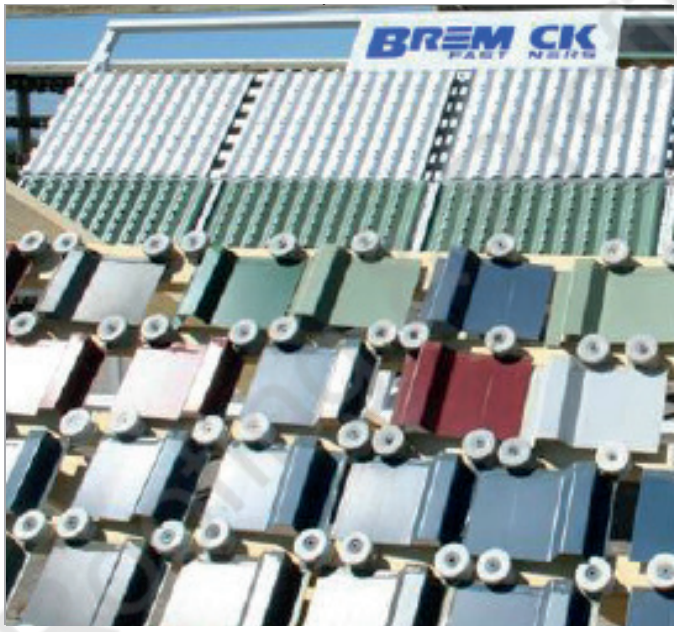
All Bremick Stud bolting and associated nuts are manufactured and compliance tested in accordance with the “American Society for Testing and Materials” (ASTM Standards).

Corrosion Protection Systems

The long term performance of fasteners is dramatically affected by atmospheric corrosion if the fasteners are not adequately protected.

The presence of pollutants, airborn salinity, moisture and temperature fluctuations in industrial and coastal environments are key factors for consideration when selecting fasteners.

Bremick has 3 test sites for corrosion testing in compliance with AS 3566-2002. Each site is a different category of corrosion severity as defined in ISO 9223 and has been assessed according to that standard. The three sites collectively allow Bremick to determine the life of our coatings in low, medium and high corrosion environments.



Our Bremick Test Sites are classified as:

- Sydney is a ISO9223 Category CX~C5 environment
- Belmont NSW is a ISO9223 Category C5 environment
- Newcastle Harbour is a ISO9223 Category C5~C4 environment

Revolution B8 Coating System – For all applications, including very severe marine and industrial environments

The Revolution B8™ coating system far exceeds the performance specifications of AS3566-2002. Revolution B8™ has a certified and unrivaled corrosion resistance of more than four times that of traditional mechanically galvanised Class 4 coatings. The coating is fully warranted for use in environmental conditions up to and including ISO 9223 Category CX (Extreme) Very Severe Marine (Category C5) and Very Severe Industrial (Category C4) Zones. Very Severe Zones are characterised by Sea Spray and extend from Breaking Surf to approximately 150m inland.

SELF DRILLING SCREWS FOR THE BUILDING AND CONSTRUCTION INDUSTRIES

CONFORMANCE CERTIFICATE SDS-4

CERTIFICATE NUMBER

Corrosion resistance requirements to Australian Standard AS 3566–2002 Part 2			
Corrosion Protection System	Armourcoat B8	**Head Marking**	B8
Compliance Standard	AS3566.2–2002 Clause 5.4		
Coating Type AS3566.2 CL 5.4(a)	Exceed 45 µm zinc coupon loss for Class 4		
B8	**PASS**		

General requirements – Mechanical Properties to Australian Standard AS 3566–2002 Part 1					
Surface Hardness* AS 3566.1 CL 1.11.1	**Core Hardness*** AS 3566.1 CL 1.11.1.2	**Case Depth*** AS 3566.1 CL 1.11.1.3	**Ductility*** AS 3566.1 CL 1.11.4	**Dimensions** AS 3566.1	**Material Grade** AS 3566.1 CL 1.5
PASS	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

General requirements – Performance to Australian Standard AS 3566–2002 Part 1					
Drive Drill Capacity AS 3566.1 CL 2.8.1 AS 3566.1 CL 3.6.1	**Drive Drill Speed** AS3566.1 CL 2.8.1 APPENDIX C	**Torsional Strength** AS3566.1 CL 2.7 AS3566.1 CL3.5	**Holding Strength** AS3566.1 CL 2.8.2 AS3566.1 CL 3.6.2	**Tensile Strength** BREMICK SPECIFICATION	**Shear Strength** BREMICK SPECIFICATION
PASS	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Product Code	Product Description	Job Numbers

Remarks:
Conforms to Australian Standard AS3566 – 2002 Part 1
Conforms to Australian Standard AS3566 – 2002 Part 2
For Tensile and Shear strengths refer to Bremick Published Data

NATIONAL DISTRIBUTION CENTRE
Quality and Technical Department
P +61 (0)2 8332 1560
F +61 (0)2 9699 5279

COLORBOND Colour Chart 2022

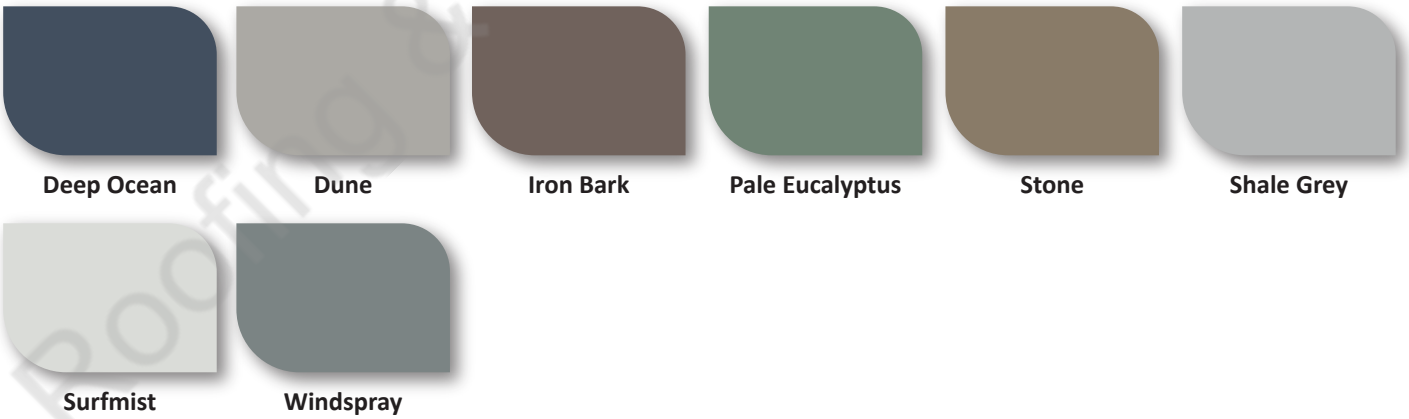
Colorbond Ultra™ COLOUR FOR THE EXTREME

COLORCLAD™

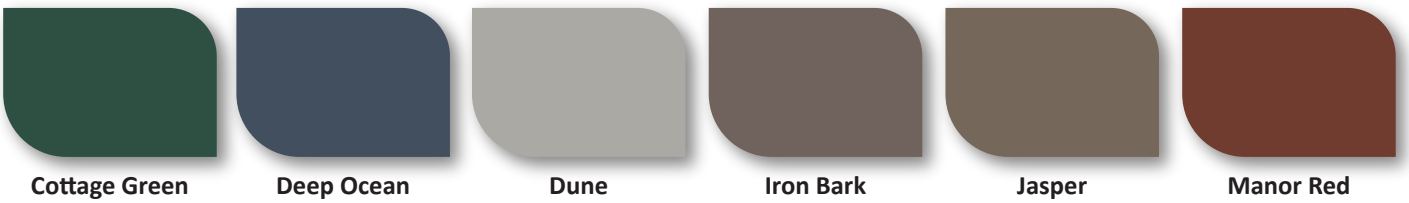
Colorbond XRW™ PROVEN COLOURS OF THE PACIFIC

CorruDek® & SuperDek Colorbond® XRW 0.442BMT / 0.48BMT / 0.55 BMT.

CorruDek® & SuperDek® Colorbond® ULTRA 0.48BMT / 0.55BMT.



TileDek® Colorbond® XRW 0.442BMT.



COLORBOND Colour Chart 2022

Colorbond Ultra COLOUR FOR THE EXTREME | COLORCLAD | Colorbond XRW PROVEN COLOURS OF THE PACIFIC

TileDek® Colorbond® ULTRA 0.442BMT.

Jasper | Iron Bark | Maxx Ebony

1Degree® Colorbond® XRW 0.48BMT.

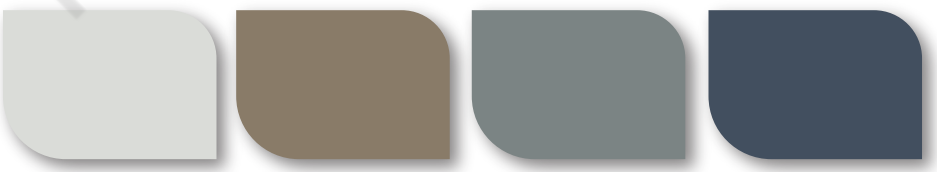
Deep Ocean | Iron Bark | Pale Eucalyptus | Shale Grey | Surfmist | Stone

Woodland Grey

1Degree® Colorbond® ULTRA 0.48BMT.

Surfmist | Windspray

Multispan® Colorbond® XRW 0.55BMT.



surfmist | Stone | Windspray | Deep Ocean

COLORBOND Colour Chart 2022

Colorbond Ultra™ COLOUR FOR THE EXTREME

COLORCLAD™

Colorbond XRW™ PROVEN COLOURS OF THE PACIFIC

Multispan® Colorbond® ULTRA 0.55BMT.

Pool Blue | Surfmist | Stone

Following colours are not stocked, but can be ordered on special order.

Paperbark® | Paradise Yellow | Black Pearl | Flaxpod™

Colour Notes:
The COLORBOND & COLORCLAD pre painted steel colours shown on this chart have been reproduced to represent actual product colour as accurately as possible. However, we highly recommend checking your chosen colour against an actual sample of your product before a final purchasing decision is made as limitations of digital palette colours affected colour tones.

Please also note that if you are printing this page, the colours will not be accurate using most printers and should not be used for colour matching purposes.

Colorbond & colour names are registered trademarks of Bluescope Steel Limited.

Colour not in stock, minimum order qtys will be 10 ton as per mill requirement.

Colours not under the profile can be ordered and supplied on indent basis.