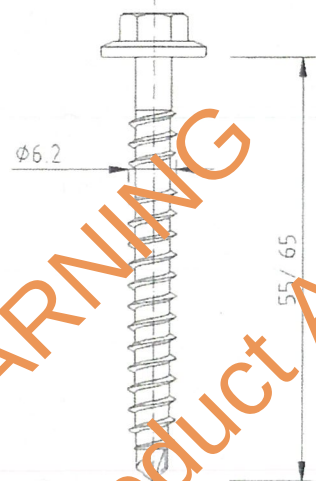
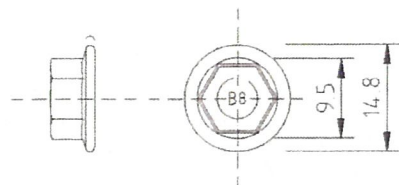
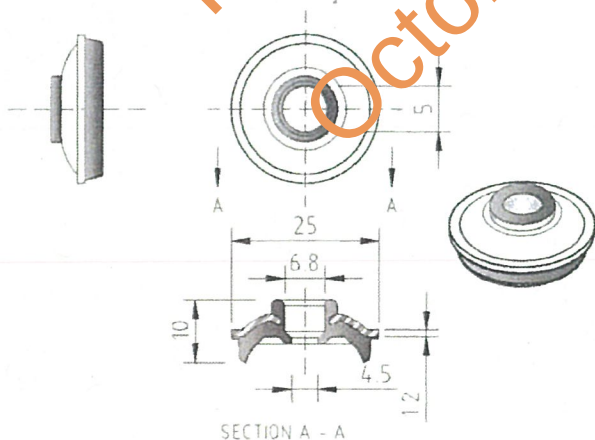


CYCLONE ASSEMBLY COMPONENTS
Comprising of self drilling screw & one piece cyclone washer

VORTEX CYCLONE UNIVERSAL SCREW
FOR METAL BATTENS, TIMBER BATTENS & STEEL PURLINS
M6.2-13 x 55, 65 & 95mm
(HEAD MARKING B8 & B8V)



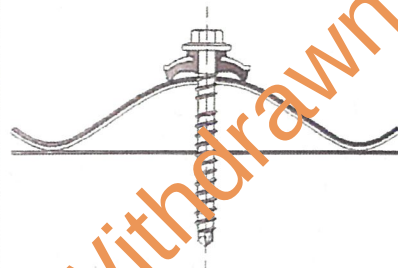
BREMICK BRA - CYCLONE WASHER / SEAL
ONE PIECE ALUMINIUM / EPDM CYCLONE WASHER



Note:
All dimensions mm (nominal)

Side Lap Fixing
Bremick Vortex™ Stitch M6.5-13 x 20
(900mm centres min.)

FASTENING:
METROLL CORODEK
0.42mm BMT G550 min.

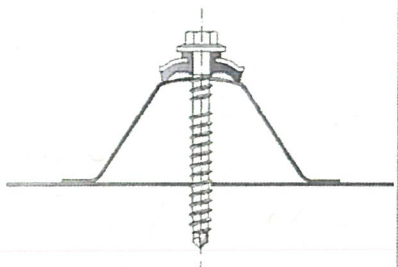


FASTENING TO:
STEEL PURLINS
1.0mm BMT min. G550 min.
1.5mm BMT min. G450 min.

METAL BATTENS
0.75mm BMT min. G550 min.

TIMBER BATTENS
F17 Hardwood

FASTENING:
METROLL TRIMCLAD
0.42mm BMT G550 min.



FASTENING TO:
STEEL PURLINS
1.0mm BMT min. G550 min.
1.5mm BMT min. G450 min.

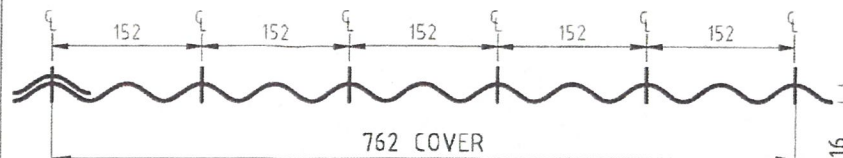
METAL BATTENS
0.75mm BMT min. G550 min.

TIMBER BATTENS
F17 Hardwood

CORRUGATED ROOFING PROFILE

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (152mm Centres)



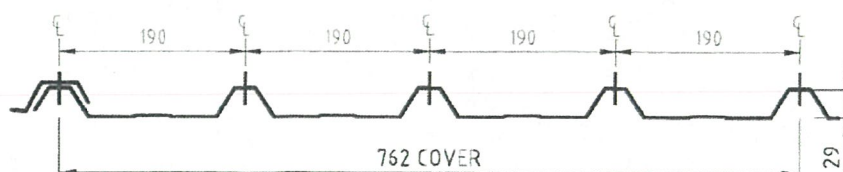
METROLL CORODEK ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

Span Type	Maximum Design Pressure (kPa) for Span L (mm)					
	600	750	900	1200	1500	1800
Internal	5.98	4.64	3.75	2.63	2.04	1.65
Equal	5.29	4.07	3.31	2.40	1.85	1.60
Double	4.23	3.26	2.65	1.92	1.48	1.20

SQUARE RIB ROOFING PROFILES

FASTENER SPACINGS

Crest Fastener Locations : Each Rib (190mm Centres)



METROLL TRIMCLAD ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

Span Type	Maximum Design Pressure (kPa) for Span L (mm)					
	600	900	1200	1500	1800	2100
Internal	5.49	3.29	2.19	1.75	1.46	1.25
Equal	4.75	2.83	2.00	1.59	1.33	1.14
Double	3.80	2.27	1.60	1.28	1.06	0.91

***Checking Engineers Certification**

Name: **RACHAEL ZEUNER**
Registration Number: **2222141**
Date: **17.4.2019**
Signature: **[Signature]**
*registered as a structural engineer in Australia

***Certifying Engineers Certification**

Name: **TREVOR JOHN**
NT Registration Number: **12170 ES**
Date: **17.04.2019**
Signature: **[Signature]**
**registered as a structural engineer in the Northern Territory

Product Name

Vortex™ Cyclone - Cyclone Assembly

Product Description: Roofing Fasteners
M6.2-13x55 & 65 - BRA Cyclone Assembly with Metroll Profiles

Manufacturer's Name: **BREMICK Pty Ltd**
F1, 62 Maddox Street
Alexandria NSW 2015
Ph: 02 8332 1501
Email: sales@bremick.com.au

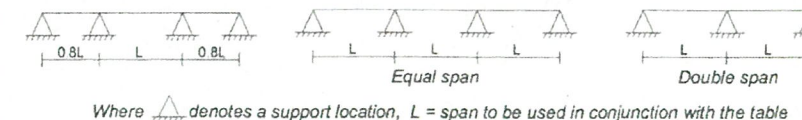
Design Criteria

Fastener & support spacing to be controlled such that the maximum design loading per fastener or maximum design pressures do not exceed:

Table 1 : Strength Limit State Design Loads per Fastener

Roofing Profile	Test Load (kN)	C.O.V. (%)	Design Load (kN)
Corodek	0.73	1.38	0.53
Trimdek	0.83	1.38	0.60

Description of span types in tables refer to the following support and geometry configurations:



Limitations

This sheet confirms the structural adequacy of the roof sheeting assembly (sheeting, screw and washer) when correctly installed and does not extend to the capacity of the batten/purlin. Refer to the sheeting & batten manufacturers data for maximum support spacings. Axial withdrawal capacity for each fastener exceeds the 3.1kN requirements of AS3566.1: 2002 - Self-drilling screws for building and construction industries - General requirements and mechanical properties. Strength limit state fastener loads have been derived from the test pressures using simplified static analysis with the uniform pressure (load) distribution.

Notes to tables:

1. Italic denotes spans that exceed foot traffic limitations.
2. Maximum Corodek spans to suit foot traffic are 1350mm
3. Maximum Trimclad spans to suit foot traffic are 1350mm

Accepted for Inclusion

DTCM ref: **M/586/01**

Chairman's Signature: **[Signature]**

Chairman's Name: **Paul Nowland**

Date of Approval: **27/05/2019** Expiry Date: **27/05/2024**

Test Certificate Numbers

JCU Cyclone Testing Station Report TS1069 Cyclic Simulated Wind Load Strength Testing of Roofing Screw and 25mm BRA Washer Assemblies for Roofing Applications, 26th June 2017