

CYCLONE ASSEMBLY COMPONENTS

Comprising of self drilling screw & one piece cyclone washer

METAL DRILLING SCREW WITH BRA WASHER CYCLONE ASSEMBLY

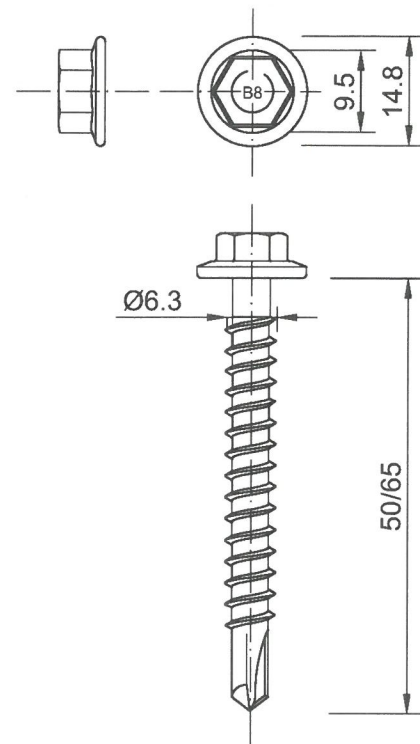
FOR SELF DRILLING INTO STEEL PURLINS

14-10 x 50/65mm

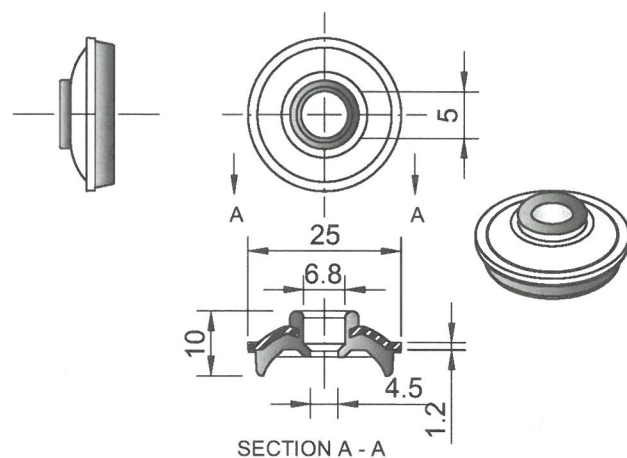
(HEAD MARKING B8 & B8V)

All dimensions mm (nominal)

Screws are Class 4 in accordance with AS3566

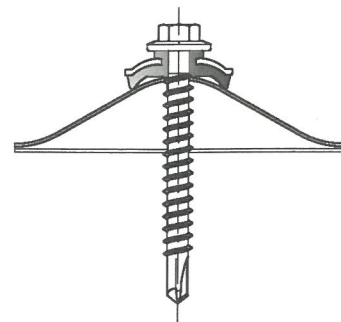


BREMICK BRA - CYCLONE WASHER / SEAL
ONE PIECE ALUMINIUM / EPDM CYCLONE WASHER



FASTENING:

METROLL CORODEK
0.42mm BMT G550 min.

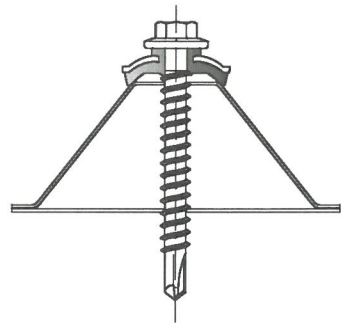


FASTENING TO:

STEEL PURLINS
0.75mm BMT min. G550 min.
1.5mm BMT min. G450 min.

FASTENING:

METROLL TRIMCLAD
0.42mm BMT G550 min.

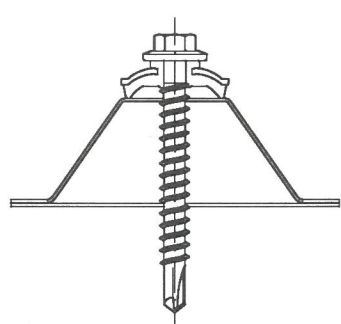


FASTENING TO:

STEEL PURLINS
0.75mm BMT min. G550 min.
1.5mm BMT min. G450 min.

FASTENING:

METROLL METROSPAN
0.42mm BMT G550 min.



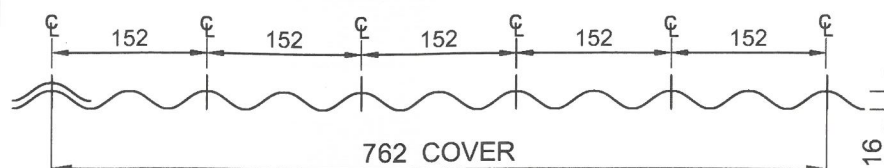
FASTENING TO:

STEEL PURLINS
0.75mm BMT min. G550 min.
1.5mm BMT min. G450 min.

CORRUGATED ROOFING PROFILE

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (152mm Centres)



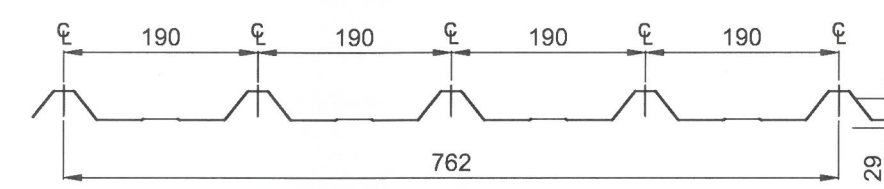
METROLL CORODEK ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

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)



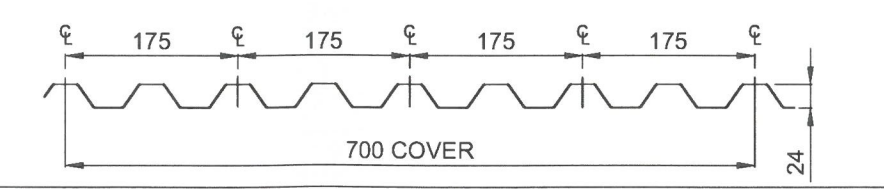
METROLL TRIMCLAD ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

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

TRAPEZOIDAL RIB ROOFING PROFILES

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (175mm Centres)



METROLL TRIMCLAD 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	6.06	5.08	4.43	3.62	2.53	1.81
Equal	5.52	4.63	4.04	3.30	2.24	1.65
Double	4.62	3.91	3.38	2.64	1.80	1.32

Product Name

SDM BRA Cyclone Assembly

Product Description: Roofing Fasteners

SDM 14-10 x 50/65 - BRA Cyclone Assembly
with Metroll Profiles

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

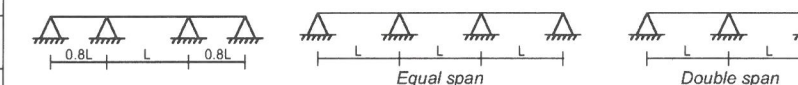
Design Criteria

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. (K)	Design Load (kN)
Corodek	0.73	1.38	0.53
Trimdek	0.83	1.38	0.60
Metrospan	1.05	1.38	0.76

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



Where Δ denotes a support location, L = span to be used in conjunction with the table

Limitations

1. 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.

2. Capacity of assembly pullover may be less than sheeting span capacity. Adjust sheeting spans accordingly.

3. Strength limit state fastener loads have been derived from the test pressures using simplified static analysis with the uniform pressure (load) distribution.

4. The fastener is only applicable for use with Metroll cladding products with the conditions in this data sheet.

Notes to tables:

- Italic denotes spans that exceed foot traffic limitations
- Maximum Corodek spans to suit foot traffic are 1350mm
- Maximum Trimclad spans to suit foot traffic are 1350mm
- Maximum Metrospan spans to suit foot traffic are 1800mm

Accepted for Inclusion in Deemed to Comply Manual

DTCM drawing number: M/392/01

Chairperson Signature: *Elisha Harris*

Chairperson Name: Elisha Harris

Date of Approval: 04/09/2025 Expiry Date: 04/09/2030

Test Certificates

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

Checking Engineer

Name: LEO NOICOS

Registration Number: 70762

Date: 1/8/2025

Signature: *Leo Noicos*

Must be an Australian registered structural engineer.

Certifying Engineer

Name: RACHAEL ZEUNER

NT Registration Number: 309710ES

Date: 1/8/2025

Signature: *Rachael Zeuner*

Must be a registered structural engineer in the Northern Territory