

CYCLONE ASSEMBLY COMPONENTS

Comprising of self drilling screw & one piece cyclone washer
METAL DRILLING SCREW WITH REGION D CYCLONE PLATE

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

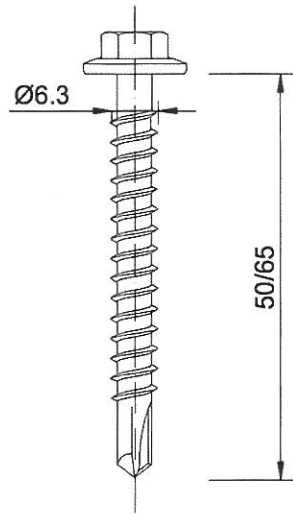
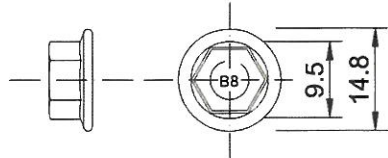
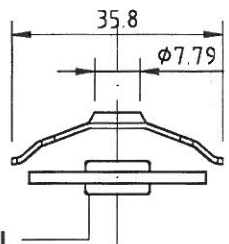
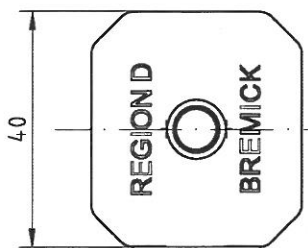
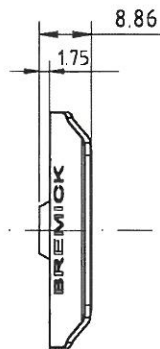


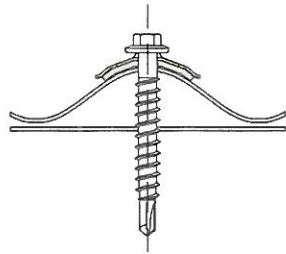
Plate Material: 1.00mm bmt G300/AZ150 Steel
 (Suitable for Use in ISO 9223 Category 5 Environments)



EPDM Seal

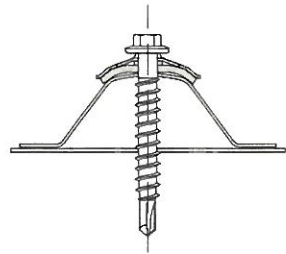


FASTENING:
 STEELINE CORRUGATED 762
 0.42mm BMT G550 min.



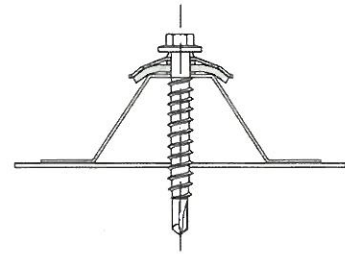
FASTENING TO:
 STEEL PURLINS
 1.5mm BMT min. G450 min.

FASTENING:
 STEELINE STEEL SPAN 700
 0.42mm BMT G550 min.



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

FASTENING:
 STEELINE STEEL CLAD 762
 0.42mm BMT G550 min.

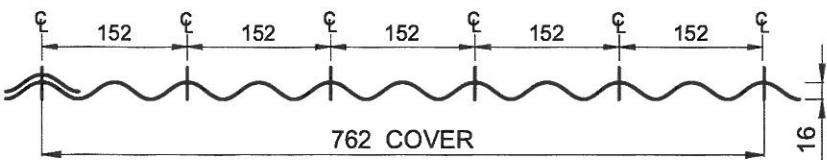


FASTENING TO:
 STEEL PURLINS
 1.5mm BMT min. G450 min.

CORRUGATED ROOFING PROFILE - STEELINE CORRUGATED 762

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (152mm Centres)
 Spans Tested: 900mm End, 1150mm Intermediate, 900mm End

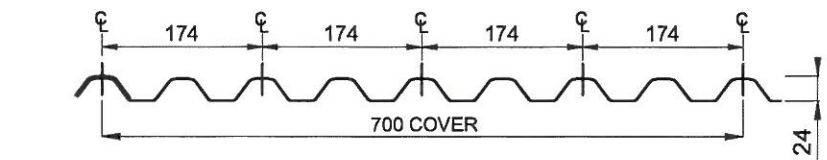


Supports	Crest Fixing
Steel Purlins G450 1.5mm BMT min.	Bremick Self drilling for metal 14-10x50 Region D Cyclone Plate Assembly

SQUARE RIB ROOFING PROFILES - STEELINE STEEL SPAN 700

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (174mm Centres)
 Spans Tested : 1200mm End, 1500mm Intermediate, 1200mm End

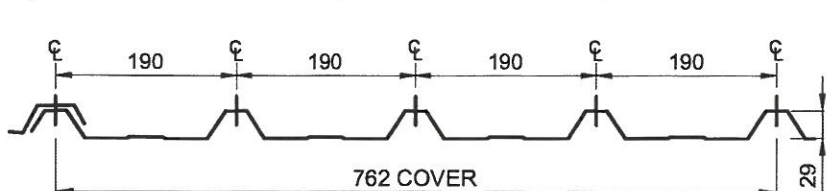


Supports	Crest Fixing
Steel Purlins G450 1.5mm BMT min.	Bremick Self drilling for metal 14-10x50 Region D Cyclone Plate Assembly

SQUARE RIB ROOFING PROFILES - STEELINE STEEL CLAD 762

FASTENER SPACINGS

Crest Fastener Locations : Each Rib (190mm Centres)
 Spans Tested : 1200mm End, 1500mm Intermediate, 1200mm End



Supports	Crest Fixing
Steel Purlins 1.5mm BMT min. G450 min.	Bremick Self drilling for metal 14-10x50 Region D Cyclone Plate Assembly

Product Name

SDM REGION D CYCLONE PLATE ASSEMBLY

Product Description:

SDM 14-10 X 50/65 - Region D Cyclone Plate Assembly with Steeline 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 _t)	Design Load (kN)
Corrugated 762	1.67	1.38	1.21
Steel Span 700	1.75	1.21	1.44
Steel Clad 762	1.47	1.38	1.06

Table 2 : Strength Limit State Design Pressures

Roofing Profile	Test Pressure (kPa)	C.O.V. (K)	Design Capacity (kPa)
Corrugated 762	7.40	1.38	5.36
Steel Span 700	6.75	1.21	5.54
Steel Clad 762	5.19	1.38	3.76

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. Strength limit state fastener loads have been derived from the test pressures using simplified static analysis with the uniform pressure (load) distribution.
- 2.Capacity of assembly pullover may be less than sheeting span capacity. Adjust sheeting spans accordingly.
- 3.The fastener is only applicable for use with Steeline cladding products with the conditions in this data sheet.

Accepted for Inclusion in Deemed to Comply Manual

DTCM drawing number: M/398/01-01

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 27/10/2025

Expiry Date: 27/10/2030

Notes covering basis of DTC(Relevant test reports etc.)

JCU Cyclone Testing Station Report TS1367 Cyclic Simulated Wind Load Testing of Bremick Roofing Screw Assemblies Installed into Steeline Roof Cladding Profiles, 3 December 2024.

Checking Engineer

Name: **Leo Noicos**

Registration Number: **70762**

Date: **1/8/2025**

Signature:

Must be an Australian registered structural engineer.

Certifying Engineer

Name: **Rachael Zeuner**

NT Registration Number: **309710ES**

Date: **1/8/2025**

Signature:

Must be a registered structural engineer in the Northern Territory