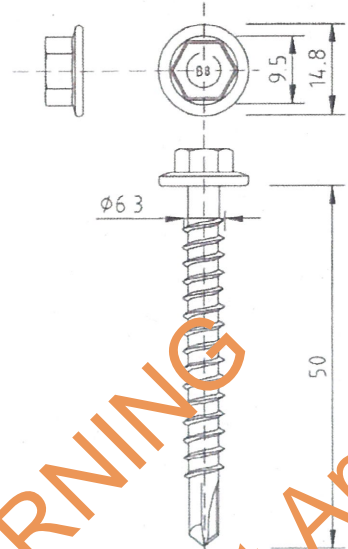


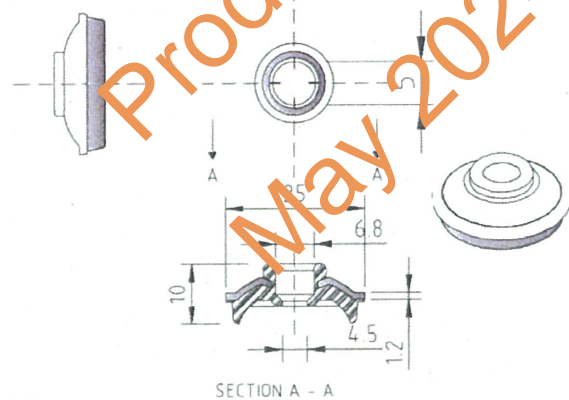
CYCLONE ASSEMBLY COMPONENTS

Comprising of self drilling screw & one piece cyclone washer
METAL DRILLING SCREW WITH BRA WASHER
CYCLONE ASSEMBLY

FOR SELF DRILLING INTO STEEL PURLINS
 14-10x50mm
 (HEAD MARKING B8, B8V)
 All dimensions in mm (nominal)



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



Testing was undertaken using fasteners with the "Revolution B8" coating system, indicated by the B8 & B8V head marking. Bremick fasteners has undertaken independent testing for "Revolution B8" coated fasteners in accordance to AS 3566.2: 2002 and has met and exceeded the requirements for Class 4 coating finish.

To achieve the required energy efficiency requirements, the use of an insulation spacer may be required. Refer to the roof sheeting manufacturers' recommendations for that particular roof profile insulation thickness combination. A longer screw of the same type may be required which will not impact on the capacity of the screw, as long as the major thread diameter clears the underside of the purlin to ensure maximum thread engagement.

Test Certificates

EngTest Report C120908-1, Test 1 Low-High-Low Cyclonic Testing of 0.42mm BMT G550 Corrugated Sheeting with SDM 14-10x50 Screws and BRA 25x1.2mm Washers, 13 December 2012
 EngTest Report C120908-7, Test 7 Low-High-Low Cyclonic Testing of 0.42mm BMT G550 Steel Span Sheeting with SDM 14-10x50 Screws and BRA 25x1.2mm Washers, 13 December 2012

FASTENING:
 STEELINE CORRUGATED 762
 0.42mm BMT G550 min.

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

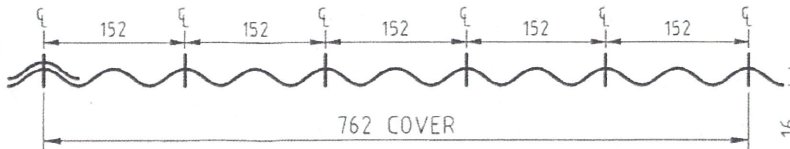
FASTENING:
 STEELINE STEEL SPAN 700
 0.42mm BMT G550 min.

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

CORRUGATED ROOFING PROFILE - STEELINE CORRUGATED 762

FASTENER SPACINGS

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

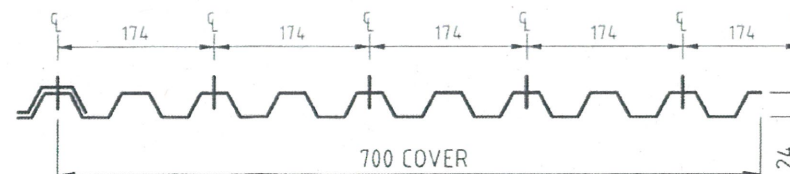


Supports	Crest Fixing	Side Lap Fixing
Steel Purlins G450 1.5mm BMT min.	Bremick Self drilling for metal 14-10x50 - BRA Cyclone Assembly	Bremick Vortex™ Stitch M6.5-13x20 (900mm Centres max.)

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	Side Lap Fixing
Steel Purlins G450 1.5mm BMT min.	Bremick Self drilling for metal 14-10x50 - BRA Cyclone Assembly	Bremick Vortex™ Stitch M6.5-13x20 (900mm Centres max.)

Product Name
SDM BRA Cyclone Assembly

Product Description : Roofing Fasteners
SDM 14 - 10x50 - BRA
 Cyclone Assembly with Steeline 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. (K _t)	Design Load (kN)
Corrugated	0.94	1.46	0.64
Steel Span	1.12	1.46	0.77

Table 2 : Strength Limit State Design Pressures

Roofing Profile	Test Pressure (kPa)	C.O.V. (K _t)	Design Capacity (kPa)
Corrugated	6.02	1.46	4.12
Steel Span	4.76	1.46	3.26

Fixing of side laps with stitching screws is generally considered good practice during installation to maintain a weather-tight seal.

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.

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

Accepted for Inclusion

DTCM ref: **M/584/01**

Chairman's Signature:

Chairman's Name: **Paul Nowland**

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

**Design Engineers Certification

Name: **RACHAEL ZEJNER**
 Rego Number: **2222141**
 Date: **17.4.2019**
 Signature:

**registered as a structural engineer in Australia

**Certifying Engineers Certification

Name: **TREVOR JOHN**
 NT Rego Number: **12170ES**
 Date: **17.04.2019**
 Signature:

**registered as a structural engineer in Northern Territory