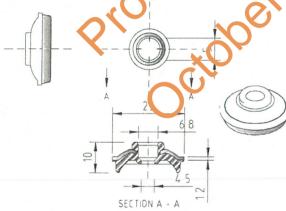
CYCLONE ASSEMBLY COMPONENTS Comprising of self drilling screw & one piece cyclone washer VORTEX CYCLONE UNIVERSAL SCREW FOR METAL BATTENS & STEEL PURLINS M6.2-13 x 55 mm (HEAD MARKING B8, B8V) All dimensions in mm (nominal)

- CYCLONE WASHER / SEAL ONE PIECE ALUMINIUM / EPDM C PCLONE 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.

FASTENING:

STEELINE CORRUGATED 762



FASTENING TO STEEL PURLINS 1.5mm bt T min. G450 min. META! BATTENS

75mm BMT min. G550 min.

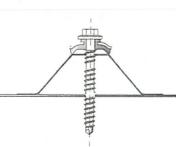
FASTENING: STEELINE STEEL CLAD 762 0.42mm BMT G550 min.



FASTENING TO:
STEEL PURLINS
1.5mm BMT min. G450 min.
METAL BATTENS
0.75mm BMT min. G550 min.

FASTENING:

STEELINE STEEL SPAN 700 0.42mm BMT G550 min.

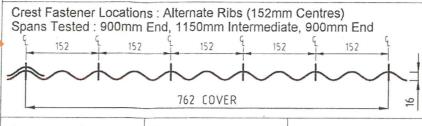


FASTENING TO:

STEEL PURLINS 1.5mm BMT min. G450 min. METAL BATTENS 0,75mm BMT min, G550 min

CORRUGATED ROOFING PROFILE - STEELINE CORRUGATED 762

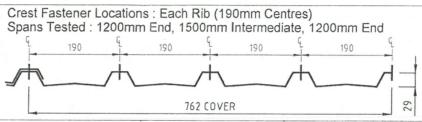
FASTENER SPACINGS



Supports	Crest Fixing	Side Lap Fixing	
Steel Purlins G450 1.5mm BMT min.	Bremick Vortex [™] Cyclone M6.2-13x55 - BRA	Bremick Vortex [™] Stitch	
Metal Battens 0.75mm BMT min.		M6.5-13x20 (900mm Centres max.)	

SQUARE RIB ROOFING PROFILES - STEELINE STEEL CLAD 762

FASTENER SPACINGS

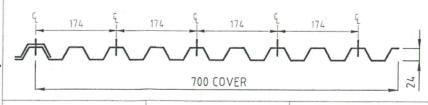


		·		
	Supports	Crest Fixing	Side Lap Fixing	
	Steel Purlins G450 1.5mm BMT min.	Bremick Vortex [™] Cyclone M6.2-13x55 - BRA	Bremick Vortex [™] Stitch	
	Metal Battens 0.75mm BMT min.		M6.5-13x20 (900mm Centres max.)	

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 Vortex™ Cycl M6.2-13x55 - I		Bremick Vortex [™] Stitch M6.5-13x20 (900mm Centres max.
**Design Engine	eers Certification	**Certify	ing Engineers Certification

Test Certificates

EngTest Report C120908-3, Test 3 Low-High-Low Cyclonic Testing of 0.42mm BMT G550 Corrugated Sheeting with Vortex Cyclone M6.2-13x55 Screws and BRA 25x1,2mm Washers, 13 December 2012

EngTest Report C120908-4, Test 4 Low-High-Low Cyclonic Testing of 0.42mm BMT G550 Steel Clad Sheeting with Vortex Cyclone M6.2-13x55 Screws and BRA 25x1.2mm Washers, 13 December 2012

EngTest Report C120908-8, Test 8 Low-High-Low Cyclonic Testing of 0.42mm BMT G550 Steel Span Sheeting with M6.2-13x55 Screws and BRA 25x1.2mm Washers, 13 December 2012

Design Engineers Certification

Name: RACHAEL ZEUNER

Rego Number: 2222141 Date: 17.4.2019

**registered as a structural engineer in Ausralia

Name: TREVOR JOHN NT Rego Number: 12178ES Date: 17.04.2019

in Northern Territory

Product Name

Vortex ™ Cyclone - Cyclone Assembly

Product Description: Roofing Fasteners

M6.2-13x55 - 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 Clad	1.17	1.46	0.80
Steel Span	1.02	1.46	0.70

Table 2: Strength Limit State Design Pressures

Roofing	Test Pressure	C.O.V.	Design Capacity
Profile	(kPa)	(K _t)	(kPa)
Corrugated	6.02	1.46	4.12
Steel Clad	4.54	1.46	3.11
Steel Span	4.31	1.46	2.95

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

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:

Chairman's Signature:

Chairman's Name:

Paul Nowland

Date of Approval: 24/05/2019

Expiry Date: 24/05/2024