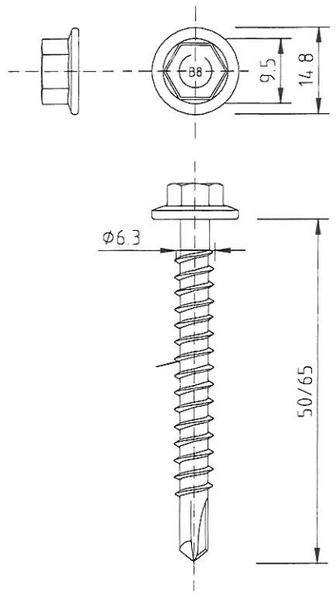
This product has been determined to satisfy NCC Performance Requirement P2.1.1 for structural stability and resistance.

CYCLONE ASSEMBLY COMPONENTS

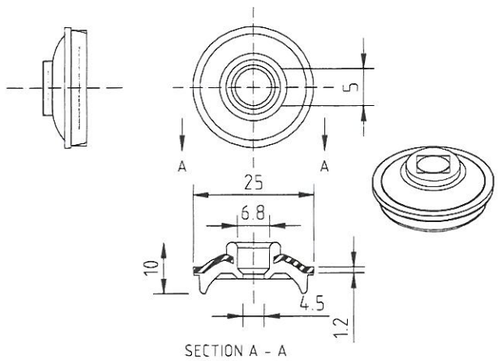
Comprising of self drilling screw & one piece cyclone washer

METAL DRILLING SCREW WITH BRA WASHER CYCLONE ASSEMBLY

FOR SELF DRILLING INTO STEEL PURLINS
14-10 x 50/65mm
(HEAD MARKING B8 & B8V)



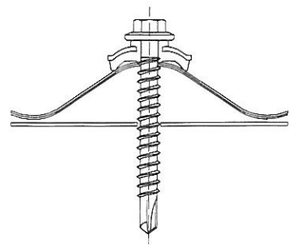
BREMICK BRA - CYCLONE WASHER / SEAL
ONE PIECE ALUMINIUM / EPDM CYCLONE WASHER



Note:
All dimensions mm (nominal)

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

FASTENING:
STRATCO CORRUGATED
0.42mm BMT G550 min.

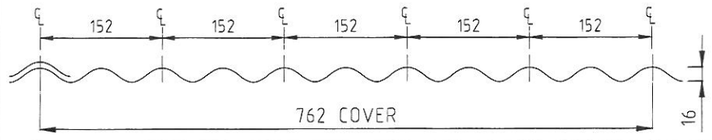


FASTENING TO:
STEEL PURLINS
1.0mm BMT min. G550 min.
1.5mm BMT min. G450 min.

CORRUGATED ROOFING PROFILE

FASTENER SPACINGS

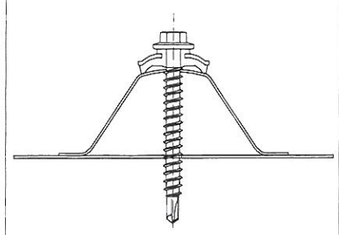
Crest Fastener Locations : Alternate Ribs (152mm Centres)



STRATCO CORRUGATED ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

	Maximum Design Pressure (kPa) for Span L (mm)					
Span Type	**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*

FASTENING:
STRATCO SUPERDEK
0.42mm BMT G550 min.

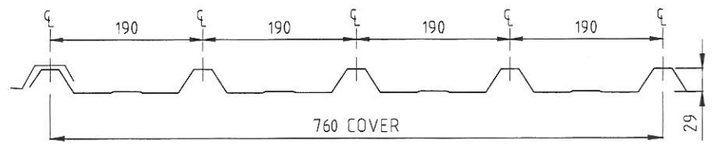


FASTENING TO:
STEEL PURLINS
1.0mm BMT min. G550 min.
1.5mm BMT min. G450 min.

SQUARE RIB ROOFING PROFILES

FASTENER SPACINGS

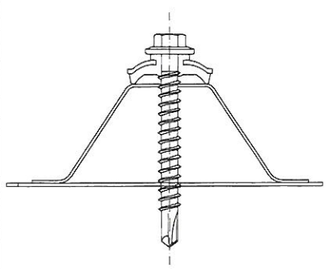
Crest Fastener Locations : Each Rib (190mm Centres)



STRATCO SUPERDEK ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

	Maximum Design Pressure (kPa) for Span L (mm)					
Span Type	**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*

FASTENING:
STRATCO SMARTSPAN
0.42mm BMT G550 min.

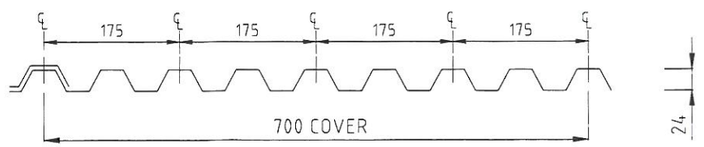


FASTENING TO:
STEEL PURLINS
1.0mm BMT min. G550 min.
1.5mm BMT min. G450 min.

TRAPEZOIDAL RIB ROOFING PROFILES

FASTENER SPACINGS

Crest Fastener Locations : Alternate Ribs (175mm Centres)



STRATCO SMARTSPAN ROOF CLADDING - ULTIMATE LIMIT STATE DESIGN PRESSURES (kPa)

	Maximum Design Pressure (kPa) for Span L (mm)					
Span Type	**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 Stratco Profiles

Manufacturer's Details: BREMICK Pty Ltd
88 Dalmeny Ave,
Rosebery NSW 2018
Ph: 02 8332 1500
Email: sales@bremick.com.au

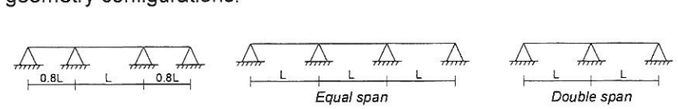
Design Criteria

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	0.73	1.38	0.53
Superdek	0.83	1.38	0.60
Smartspan	1.05	1.38	0.76

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



Where ⚠ *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. 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.

Notes to tables:
1. Italic denotes spans that exceed foot traffic limitations.
2. Maximum Corrugated spans to suit foot traffic are 1350mm
3. Maximum Superdek spans to suit foot traffic are 1350mm

Accepted for Inclusion in Deemed to Comply Manual

DTCM drawing number: M/349/01

Chairperson Signature:

Chairperson Name: Paul Nowland

Date of Approval: 29/3/2022 Expiry Date: 29/3/2027

Test Certificate Numbers

JCU Cyclone Testing Station Report TS1221 Cyclic Simulated Wind Load Strength Testing of Roofing Screws and 25mm BRA Washer Assemblies for Roofing Applications. 31st August 2021.

*Checking Engineers Certification
Name: LEO NOICOS
Registration Number: NER70762
Date: 10.03.2022
Signature:
*registered as a structural engineer in Ausralia

*Certifying Engineers Certification
Name: RACHAEL ZEUNER
NT Registration Number: 309710ES
Date: 10.3.2022
Signature: RZeuner
**registered as a structural engineer in the Northern Territory