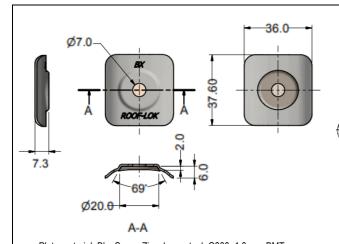
NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code Volume 2 (Section 3.0.4 Structural resistance of materials in high wind areas)

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



Ex 940mm WIDE COIL Fixing with Cyclone Cap 35 UNDERLAF 141.7

STEELINE STEELRIB 675 ROOF SHEETING

Plate material: BlueScope Zincalume steel, G300, 1.0 mm BMT thick Coating: Polyester base aluminium top coat on Zincalume (hot dipped aluminium/Zinc / Magnesium alloy)

Suitable for category 5 (C-51 and C-5M) environments according

Washer (top / bottom) material: EPDM rubber, thickness as noted.

MATERIAL SPECIFICATION

METAL TYPE	THICKNESS	GRADE	FINISH	COVER
	0.42mm BMT 0.48mm BMT			

MINIMUM FIXING REQUIREMENTS

Buildex Fixing Screws	No of Fixing	Cyclone Cap	Batten
14-10x75 mm Hex Head Teks	3	BX Roof - Lok	1.5 mm BMT Steel G450
14-10x100 mm Type 17 Screw	3	BX Roof - Lok	Timber
Cyclone cap shall be used where applicable in the tables. All fixing shall have Class 4 protection finish.			

Screws to comply with AS3566.1 - 2002: Self - drilling screws for the building and construction industries - General requirements and mechanical properties

Span (mm)	Recommended Ultimate Limit State Capacity (kPa)			
Span (mm)	0.42 BMT SteelRib 675	0.48 BMT SteelRib 675		
Three spans of 900	5.62	7.31		
Three spans of 1800	3.15	3.81		
Three spans of 2700	1.09	N/A		
Three spans of 3000	N/A	1.23		

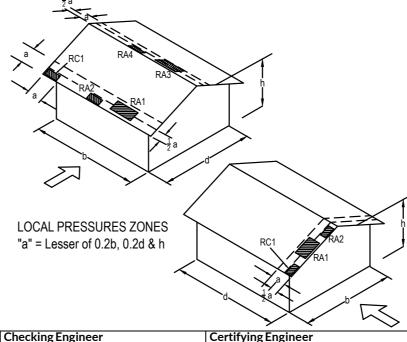
RA1 - KL = 1.5 - Upwind leading edges within "a" of the edge

RA2 - KL = 2.0 - Upwind leading edges within "a"/2 of the edge

RA3 - KL = 1.5 - Downwind side of hips and ridges within "a" of the edge - When roof pitch > or = 10°

RA4 - KL = 2.0 - Downwind side of hips and ridges within "a"/2 of the edge - When roof pitch > or = 10° RC1 - KL = 3.0 for Roof pitch < 10° - Upwind corners within "a" of edge

RC1 - KL = 2.0 for 10° and greater - Upwind corners within "a" of edge



Buildex Fixing Screws	No of Fixing	Cyclone Cap	Batten	
14-10x75 mm Hex Head Teks	3	BX Roof - Lok	1.5 mm BMT Steel G450	
14-10x100 mm Type 17 Screw	3	BX Roof - Lok	Timber	
Cyclone cap shall be used where applicable in the tables.				
All fixing shall have Class 4 protection finish.				
Comments and a second south ACCESS 4 2002, Self deliling a second for the building and				

11/17	
1.23	Limitati

Pitch limitation is subject to drainage requirements and shall be checked

Wind speeds, pressures shall be determined in accordance with

V_{desθ} Design Wind Speed at reference height (m/s):

AS/NZS1170.2-2011 Amndt 1 - 5, Structural Design Actions - Wind Actions

AS/NZS1170.2-2011 Amndt 1 - 5, Structural Design Actions - Wind Actic

For roof pitch < 10° - note RC1 local zone in roof corners.

Site wind speed calculated in accordance with

Steeline SteelRib 675 Sheeting for Roofs

SteelRib 675 Screw Fixed Roof Sheeting

GENERAL ROOFING PRODUCTS PTY LTD

24 Pruen Road, Berrimah, NT, 0828

Internal Pressure Coefficient Cpi = +0.7

Pe = qu x (Cpe x KL x Kc,e + Cpi x Kc,i)

"a" = Minimum of 0.2*d or 0.2*b or h

Cpe = 0.9 for h/d ratios <= 0.5

- Limited to h/d not greater than 0.5 in tabled spacings.
- Mt = Ms = Md = 1.0

Product Description

Manufacturer's Details

Design Criteria

Maximum overhang - 200mm

Kc.e = Kc.i = 0.9

- Minimum purlin steel thickness for fixing 1.5 mm BMT G450
- For h/d>0.5 where Cpe > 0.9 refer to site specific engineer certification with adjusted Pe calculation.
- Installation assumes conventional edge flashing is installed over unlapped edges of sheeting.
- For Buildings not greater than 25m in height
- Always walk over supports if possible, generally keep your weight distributed evenly over the soles of your shoes in the pans.
- Maintain a minimum of 3 screw threads protruding on the far side for steel support and minimum 30 mm embedment depth into timber support.

Maxumum Allowable span (mm) MAX. ALLOWABLE ROOF SHEETING SPANS Design Cyclone Cap Cyclone Cap KL.Kc,e+CpVsit 0.42 BMT | 0.48 BMT | 0.42 BMT | 0.48 BM KL Local Kc,e: Cfig .Kc,i) Cpi (m/s) (kpa) (kPa) (mm) 1.44 4.99 1090 1320 980 1180 1.5 1.85 6.39 850 1030 760 920 3.47 0.90 0.70 0.90 2.25 7.80 700 840 630 750 3.06 10.60 510 620 450 550 1.44 4.23 1290 1560 1160 1400 1.5 1.85 5.42 1000 1210 900 1080 0.90 2.94 0.90 0.70 2.25 6.62 820 990 730 890 600 730 540 650 3.06 1 44 3 76 1450 1700 1300 1530 1.5 1.85 4.82 1130 1370 1010 1230 2.61 0.90 0.70 2.25 5.88 930 1120 830 1000 3.06 8.00 680 820 610 730 1.44 3.43 1590 1750 1430 1570 1.5 1.85 4.39 1240 1500 1110 1350 0.90 2.38 0.90 0.70 2 25 5.36 1020 1230 910 1100 670 3.06 7 29 750 900 810 1.44 1700 1840 1650 3.21 1530 1.5 1.85 1600 1180 1440 4.12 1320 2 23 0.90 0.70 0.90 2.25 5.02 1090 1310 980 1170 3.06 6.83 800 960 720 860 1.44 2.71 1840 1650 1800 2000 1.5 1.85 3.47 1570 1730 1410 1550 1 88 0.90 0.70 2.25 4.23 1290 1560 1160 1400 3 06 5.76 950 1140 850 1020 1 44 2.16 2200 1840 1980 1.5 1 85 1800 2000 1620 1800 277 1.50 0.70 0.90 2.25 3.38 1620 1780 1450 1600 3.06 4.59 1190 1440 1070 1290 1.44 1.75 2300 2400 2160 2000 2150 1800 1930 1 85 2 24 1.22 0.90 0.70 0.90 2.25 1820 2000 1630 1800 1470 1700 1320

Notes covering basis of DTC (Relevant test reports etc)

Test Report: The above specification is based on LHL testing Report No TS654 by James Cook University signed April 4, 2007.

Checking Engineer

John L Towler 24642ES Registration Number:

NT Registration Number: 145651ES

Date: Signature:

flust be a registered structural engineer in the Northern Territ

15 March 2021

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/740

Chairperson Signature:

Paul Nowland Chairperson Name:

Date of Approval: 19/03/2021 Expiry Date: 19/03/2026