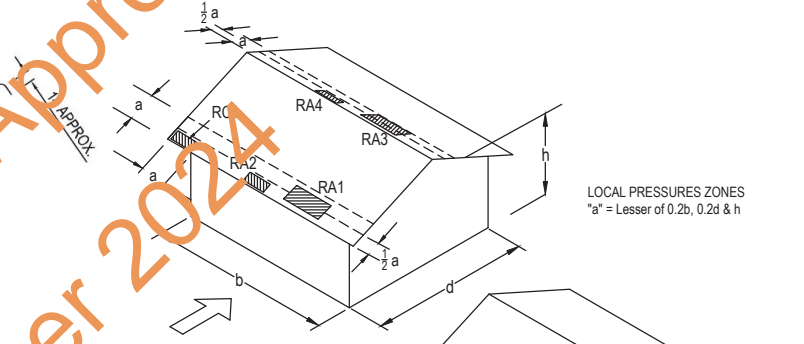
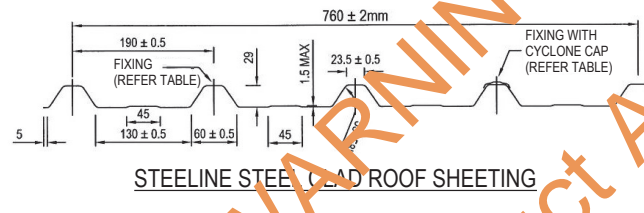


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P2.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA



MATERIAL SPECIFICATION

METAL TYPE	THICKNESS	GRADE	FINISH	COVER
AS1397-1984	0.42mm BMT	550 MPa	ZINCALUME & COLORBOND	752mm x 4
G550 / AM125 / AM100	0.48mm BMT	550 MPa	ZINCALUME & COLORBOND	

MAX. ALLOWABLE ROOF SHEETING SPANS FOR IMPORTANCE LEVEL 2 BUILDINGS

Vsit (m/s)	qu (kpa)	Cpe	Cpi	Kc,e = Ke'l	KL Local Factor	Cfig	Maximum Allowable span (mm)				
							Design pressure (kPa)	With Cyclone Cap (mm)	Without cyclone Cap (mm)		
76	3.47	0.90	0.70	0.90	1	1.44	4.99	1050	780		
							1.5	1.85	6.39	860	600
							2	2.25	7.80	710	490
							3	3.06	10.60	520	360
70	2.94	0.90	0.70	0.90	1	1.44	4.23	1140	920		
							1.5	1.85	5.42	1010	710
							2	2.25	6.62	830	580
							3	3.06	9.00	610	430
66	2.61	0.90	0.70	0.90	1	1.44	3.76	1210	1030		
							1.5	1.85	4.82	1070	800
							2	2.25	5.88	940	660
							3	3.06	8.00	690	480
63	2.38	0.90	0.70	0.90	1	1.44	3.43	1250	1130		
							1.5	1.85	4.39	1120	880
							2	2.25	5.36	1010	720
							3	3.06	7.29	760	530
61	2.23	0.90	0.70	0.90	1	1.44	3.21	1280	1210		
							1.5	1.85	4.12	1160	940
							2	2.25	5.02	1050	770
							3	3.06	6.83	810	570
56	1.88	0.90	0.70	0.90	1	1.44	2.71	1360	1360		
							1.5	1.85	3.47	1250	1120
							2	2.25	4.23	1140	920
							3	3.06	5.76	960	670
50	1.50	0.90	0.70	0.90	1	1.44	2.16	1450	1450		
							1.5	1.85	2.77	1350	1350
							2	2.25	3.38	1250	1150
							3	3.06	4.59	1100	840
45	1.22	0.90	0.70	0.90	1	1.44	1.75	1520	1520		
							1.5	1.85	2.24	1420	1420
							2	2.25	2.73	1350	1350
							3	3.06	3.72	1220	1040

Span (mm)	No of fixing per sheet	Recommended Ultimate Limit State Capacity (kPa)		
		Cyclone Cap		
		1.5 mm BMT	0.75 mm BMT	0.75 mm BMT
1000	4	5.54	4.44	3.52

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

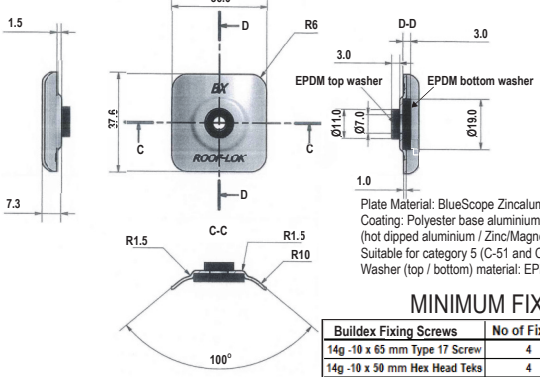


Plate Material: BlueScope Zincalume steel, G300, 1.0 mm BMT thick
 Coating: Polyester base aluminium top coat on Zincalume (hot dipped aluminium / Zinc/Magnesium alloy)
 Suitable for category 5 (C-51 and C-5M) environments according to AS4312-2008
 Washer (top / bottom) material: EPDM rubber, thickness as noted.

MINIMUM FIXING REQUIREMENTS

Buildex Fixing Screws	No of Fixing	Cyclone Cap	Batten
14g - 10 x 65 mm Type 17 Screw	4	BX Roof - Lok	Timber
14g - 10 x 50 mm Hex Head Tek's	4	BX Roof - Lok	1.5 mm BMT Steel
15g - 15 x 55 mm Batten Tek's	4	BX Roof - Lok	TH 40 x 0.75 mm BMT Steel
M6 - 11 x 50 mm Roof Zips	4	BX Roof - Lok	TH 40 x 0.75 mm BMT Steel

Cyclone cap shall be used where applicable in the tables.
 Timber shall be Structural grade MGP12 or stronger
 Steel shall be a minimum thickness of 0.75 mm G550 or 1.5 mm G450.
 All fixings shall have Class 4 protection finish.
 Screws to comply to AS3566.1 - 2002: Self - drilling screws for the building and construction industries - General requirements and mechanical properties.

Product Name
Steeline Steel Clad Sheeting for Roofs

Product Description
Steeline Steel Clad Roof Sheeting

Manufacturer's Name
GENERAL ROOFING PRODUCTS PTY LTD
 24 Pruen Road, Berimah, NT, 0828

DESIGN CRITERIA

- Wind speeds, pressures shall be determined in accordance with AS/NZS1170.2-2011 Amendments 1- 4, Structural Design Actions - Wind Actions,
- Basic Regional Wind Velocity VR = 69m/sec (R=500)
- Internal Pressure Coefficient Cpi = +0.7,-0.65
- Cpe = - 0.9, +0.2 for h/d ratios <= 0.5
- Pe = qu x (Cpe x Kl x Kc,e + Cpi x Kc,i)
- Kc,e = Kc,i = 0.9
- "a" = Minimum of 0.2*d or 0.2*b or h

Limitations

- Pitch limitation is subject to drainage requirements and shall be checked separately.
- For roof pitch < 10° - note RC1 local zone in roof corners.
- Limited to h/d not greater than 0.5 in tabled spacings.
- Mt = Ms = Md = 1.0
- Span tables are suitable for minimum continuous 3 spans installation of sheeting.
- Maximum overhang - 150mm
- Minimum purlin steel thickness for fixing - 0.75mm G550 & 1.5 mm 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 unlappped edges of sheeting.
- For Buildings not greater than 25m in height
- When using cyclonic steel batten, the maximum batten spacing may be critical and limit the span of the cladding. It is essential that this sheet is read in conjunction with the relevant deemed to comply information for the batten product adopted.
- Always walk over supports if possible, generally keep your weight distributed evenly over the soles of your shoes.
- Maintain a minimum of 3 screw threads protruding on the far side for steel support and minimum 30 mm embedment depth into timber support.

Accepted for Inclusion

DTCM ref: **M/340/01**

Notes
 Test Report - The above specification is based on testing by ENGTEST The University of Adelaide Australia.
 Report No C081001-10, C081001-11, C081001-12, C081001-13 issued on 07th April 2009 , C081001-15, C081001-16, C081001-17 issued on 14th May 2009.
 And
 Blannmore Noosaville Test Report No 107 dated 31th August 2011, #131 and #132 dated 20th March 2013.
 And
 DTCM/192: RoofLok Cyclone Plate Washer

Checking Engineers Certification
 Name: John L Towler
 NT Rego Number: 24642ES
 Date: 23 July 2019
 Signature: *[Signature]*
 **registered as a structural engineer in Northern Territory

Certifying Engineers Certification
 Name: Wisnu Lim
 NT Rego Number: 145651ES
 Date: 26 April 2019
 Signature: *[Signature]*
 **registered as a structural engineer in Northern Territory

Chairman's Signature: *[Signature]*

Chairman's Name: **Paul Nowland**

Date of Approval: 10/10/2019 Expiry Date: 10/10/2024