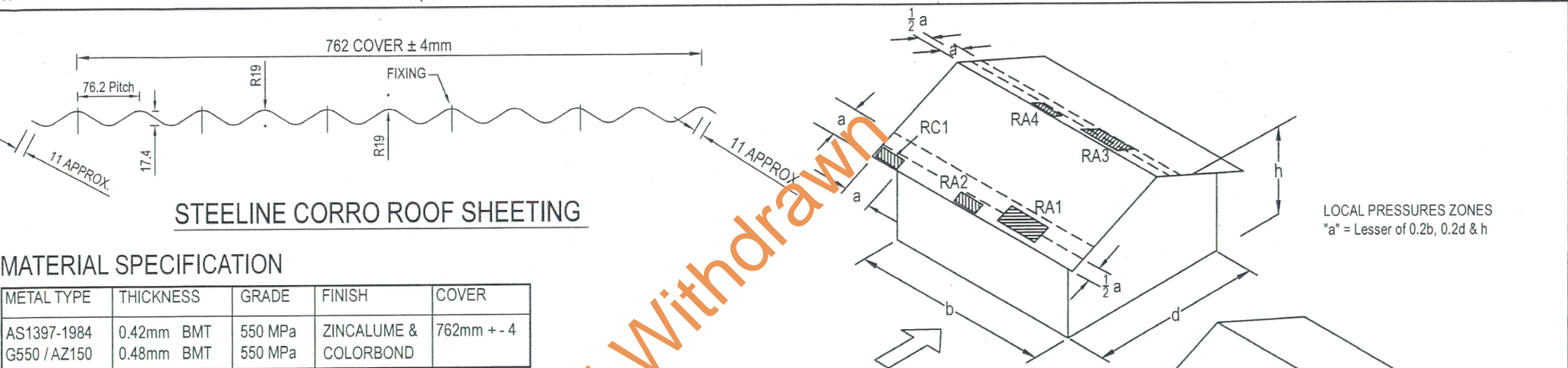


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA



STEELINE CORRO ROOF SHEETING

MATERIAL SPECIFICATION

METAL TYPE	THICKNESS	GRADE	FINISH	COVER
AS1397-1984 G550 / AZ150	0.42mm BMT 0.48mm BMT	550 MPa 550 MPa	ZINCALUME & COLORBOND	762mm + - 4

MAX. ALLOWABLE ROOF SHEETING SPANS FOR IMPORTANCE LEVEL 2 BUILDINGS									
Design pressure									
Maximum Allowable span (mm)									
Three or more spans									
End span									
Vsit	qu	Cpe	Cpi	Kc,e = Kc,i	KL Local Factor	Cfig	Pe = qu (Cpe x KL x Kc,e + Cpi x Kc,i)	Cyclone Cap	No Cyclone Cap
(m/s)	(kPa)						(kPa)	(mm)	(mm)
76	3.47	0.90	0.70	0.90	1	1.44	4.99	970	730
					1.5	1.85	6.39	760	570
					2	2.25	7.80	620	470
					3	3.06	10.60	550	340
70	2.94	0.90	0.70	0.90	1	1.44	4.23	1070	870
					1.5	1.85	5.42	890	670
					2	2.25	6.62	730	550
					3	3.06	9.00	540	400
66	2.61	0.90	0.70	0.90	1	1.44	3.76	1110	970
					1.5	1.85	4.82	1000	760
					2	2.25	5.88	820	620
					3	3.06	8.00	600	460
63	2.38	0.90	0.70	0.90	1	1.44	3.43	1150	1070
					1.5	1.85	4.39	1050	830
					2	2.25	5.36	900	680
					3	3.06	7.29	660	500
61	2.23	0.90	0.70	0.90	1	1.44	3.21	1180	1140
					1.5	1.85	4.12	1080	890
					2	2.25	5.02	960	730
					3	3.06	6.83	710	530
56	1.88	0.90	0.70	0.90	1	1.44	2.71	1230	1230
					1.5	1.85	3.47	1150	1060
					2	2.25	4.23	1070	870
					3	3.06	5.76	840	640
50	1.50	0.90	0.70	0.90	1	1.44	2.16	1300	1300
					1.5	1.85	2.77	1230	1230
					2	2.25	3.38	1150	1090
					3	3.06	4.59	1030	800
45	1.22	0.90	0.70	0.90	1	1.44	1.75	1380	1380
					1.5	1.85	2.24	1290	1290
					2	2.25	2.73	1230	1230
					3	3.06	3.72	1120	990

Span (mm)	No of fixing per sheet	Recommended Ultimate Limit State Capacity (kPa)	
		Cyclone Caps	No Cyclone Cap
Four spans of 900	5	5.64	4.09

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

MINIMUM FIXING REQUIREMENTS

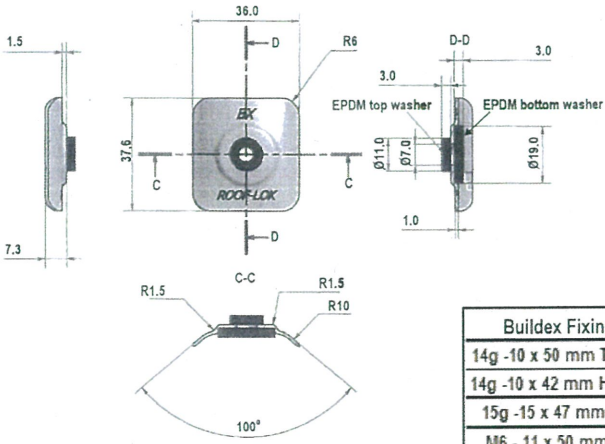


Plate Material: BlueScope Zincalume steel, G300, 1.0 mm BMT thick
Coating: Polyester base aluminium top coat on Zincalume
(hot dipped aluminium / Zinc/Magnesium alloy)
Suitable for category 5 (C-51 and C-5M) environments according to AS4312-2008
Washer (top / bottom) material: EPDM rubber, thickness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

Buildex Fixing Screws	No of Fixing	Cyclone Cap	Batten
14g -10 x 50 mm Type 17 Screw	5	BX Roof - Lok	Timber
14g -10 x 42 mm Hex Head Tek	5	BX Roof - Lok	1.5 mm BMT Steel
15g -15 x 47 mm Batten Tek	5	BX Roof - Lok	TH 40 x 0.75 mm BMT Steel
M6 - 11 x 50 mm Roof Zips	5	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.

Notes

Test Report - The above specification is based on testing by ENGTEST The University of Adelaide Australia.
Report No C081001-03, C081001-04, C081001-05, C081001-06, C081001-07, C081001-08, C081001-09 Dated 7 of April 2009

Blammore Noosaville Test Report No 107 dated 31 August 2011, 131 and 132 Dated 20 March 2013.
DTCM/192: RoofLok Cyclone Plate Washer

**Checking Engineers Certification

Name: John L Towler
NT Rego Number: 24642ES
Date: 29 April 2019
Signature:
**registered as a structural engineer in Northern Territory

**Certifying Engineers Certification

Name: Wisnu Lim
NT Rego Number: 145651ES
Date: 29 April 2019
Signature:
**registered as a structural engineer in Northern Territory

Product Name
Steeline Corro Sheetting for Roofs

Product Description
Corro Screw Fixed Roof Sheetting

Manufacturer's Name
GENERAL ROOFING PRODUCTS PTY LTD
24 Pruen Road, Berrimah, 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
- Cpe = 0.9 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
- Site wind speed calculated in accordance with AS/NZS1170.2-2011 Amndt 3, Structural Design Actions - Wind Actions

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 sheetting.
- 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 sheetting.
- 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/587/01

Chairman's Signature:

Chairman's Name: Paul Nowland

Date of Approval: 29/05/2019 Expiry Date: 29/05/2024