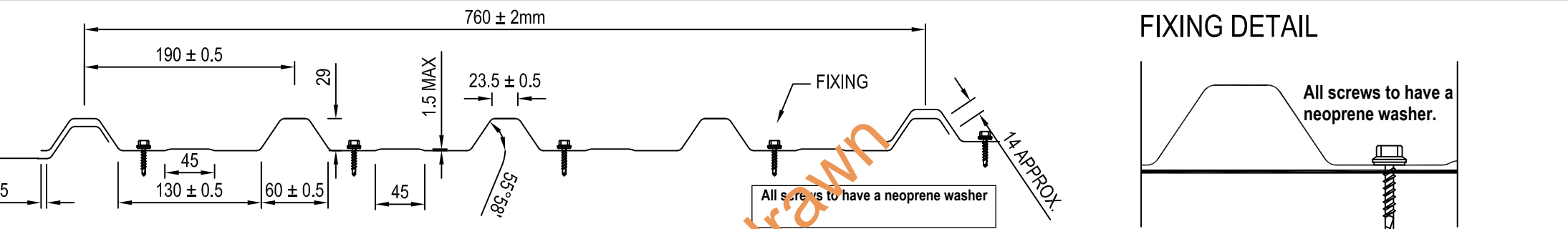


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA



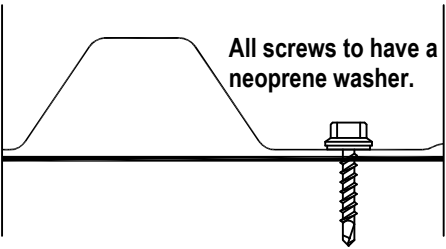
STEELINE STEEL CLAD WALL SHEETING

MATERIAL SPECIFICATION

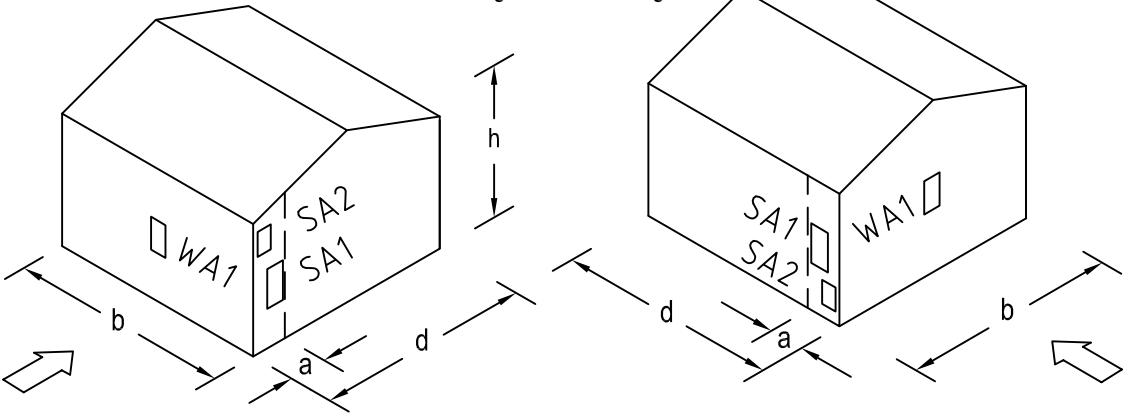
METAL TYPE	THICKNESS	GRADE	FINISH	COVER
AS1397-1984	0.42mm BMT	550 MPa	ZINCALUME &	762mm + - 4
G550 / AZ150	0.48mm BMT	550 MPa	COLORBOND	

MAX. ALLOWABLE WALL SHEETING SPANS FOR IMPORTANCE LEVEL 2 BUILDINGS							Design pressure	Maximum Allowable Span (mm)	
Vs it	qu		C _{pe}	C _{pi}	K _{c,e} = K _{c,i}	KL Local Factor	C _{sig}	Three or more spans	
(m/s)	(kpa)								
76	3.47	All other Areas	0.70	0.65	0.90	1	1.22	4.20	1140
		WA1	0.70	0.65	0.90	1.5	1.53	5.30	1010
		SA1	0.65	0.70	0.90	1.5	1.51	5.20	1020
		SA2	0.65	0.70	0.90	2	1.80	6.24	880
70	2.94	All other Areas	0.70	0.65	0.90	1	1.22	3.57	1240
		WA1	0.70	0.65	0.90	1.5	1.53	4.50	1100
		SA1	0.65	0.70	0.90	1.5	1.51	4.43	1110
		SA2	0.65	0.70	0.90	2	1.80	5.29	1020
66	2.61	All other Areas	0.70	0.65	0.90	1	1.22	3.18	1295
		WA1	0.70	0.65	0.90	1.5	1.53	4.00	1170
		SA1	0.65	0.70	0.90	1.5	1.51	3.94	1180
		SA2	0.65	0.70	0.90	2	1.80	4.70	1080
63	2.38	All other Areas	0.70	0.65	0.90	1	1.22	2.89	1330
		WA1	0.70	0.65	0.90	1.5	1.53	3.64	1230
		SA1	0.65	0.70	0.90	1.5	1.51	3.59	1230
		SA2	0.65	0.70	0.90	2	1.80	4.29	1130
61	2.23	All other Areas	0.70	0.65	0.90	1	1.22	2.71	1365
		WA1	0.70	0.65	0.90	1.5	1.53	3.42	1260
		SA1	0.65	0.70	0.90	1.5	1.51	3.37	1260
		SA2	0.65	0.70	0.90	2	1.80	4.02	1170
56	1.88	All other Areas	0.70	0.65	0.90	1	1.22	2.29	1450
		WA1	0.70	0.65	0.90	1.5	1.53	2.88	1340
		SA1	0.65	0.70	0.90	1.5	1.51	2.84	1340
		SA2	0.65	0.70	0.90	2	1.80	3.39	1250
50	1.50	All other Areas	0.70	0.65	0.90	1	1.22	1.82	1560
		WA1	0.70	0.65	0.90	1.5	1.53	2.30	1440
		SA1	0.65	0.70	0.90	1.5	1.51	2.26	1440
		SA2	0.65	0.70	0.90	2	1.80	2.70	1350
45	1.22	All other Areas	0.70	0.65	0.90	1	1.22	1.48	1650
		WA1	0.70	0.65	0.90	1.5	1.53	1.86	1550
		SA1	0.65	0.70	0.90	1.5	1.51	1.83	1550
		SA2	0.65	0.70	0.90	2	1.80	2.19	1460

FIXING DETAIL



ROOF - LOCAL PRESSURE ZONES
NOTE - "a" = The lesser of 0.2b, 0.2d & h
"h" = Average Structure Height



SA1 - KL = 1.5 - Side walls near windward wall edges within "a" of the edge
SA2 - KL = 2.0 - Side walls near windward wall edges within "a"/2 of the edge
WA1- KL = 1.5 - Windward wall anywhere

Span (mm)	No of fixing per sheet	Recommended Ultimate Limit State Capacity (kPa)
Four spans of 1200	4	4.62

MINIMUM FIXING REQUIREMENTS

Buildex Fixings	No of Fixing	Batten
14g -10 x 50 mm Type 17 Screw	5	Timber
14g -10 x 25 mm Hex Head Tek	5	1.5 mm BMT Steel
15g -15 x 25 mm Batten Tek	5	TH 40 x 0.75 mm BMT Steel
M6 - 11 x 25 mm Roof Zips	5	TH 40 x 0.75 mm BMT Steel
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 Walls Sheeting

Product Description
Steeline - Steel Clad Screw Fixed Wall Sheeting

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 to 4, Structural Design Actions - Wind Actions,
 - Basic Regional Wind Velocity VR = 69m/sec (R=500)
 - Internal Pressure Coefficient Cpi = +0.7, -0.65
 - Cpe = +0.7, -0.65
 - 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
- Cpe values based on a maximum of 0.7 for building height, h ≤ 25 m.
 - Where Cpe = 0.8 refer to site specific engineer certification with adjusted Pe calculation.
 - Not for supporting liquid loads or heavy lateral loads.
 - All fixings shall be class 4 finish.
 - Span tables are suitable for minimum 3 spans installation of sheeting.
 - Maximum overhang - 200 mm
 - Mt = Ms = Md = 1.0
 - 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/737

Chairman's Signature:

Chairman's Name: Paul Nowland

Date of Approval: 2/12/2020 Expiry Date: 2/12/2025

Notes
The above specification is based on testing by ENGTEST The University of Adelaide Australia.
Test Report - 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.

Blanmore Noosaville Test Report No 107 dated 31th August 2011, 131 and 132 Dated 20 March 2013.
Structural Engineering Consultants Darwin (SECA) 19305T dated 30 October 2020.

**Checking Engineers Certification
Name: John Towler
NT Rego Number: 24642ES
Date: 04-11-2020
Signature:

**Certifying Engineers Certification
Name: Wisnu Lim
NT Rego Number: 145651ES
Date: 04-11-2020
Signature:

**registered as a structural engineer in Northern Territory **registered as a structural engineer in Northern Territory