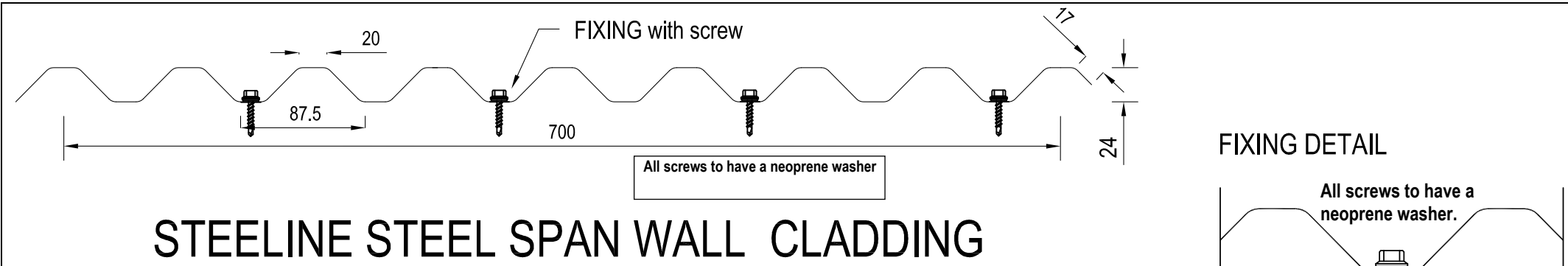


NORTHERN TERRITORY DEEMED TO COMPLY MANUAL – National Construction Code Volume 2 (Section 3.0.4 Structural resistance of materials in high wind areas)

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



STEELINE STEEL SPAN WALL CLADDING

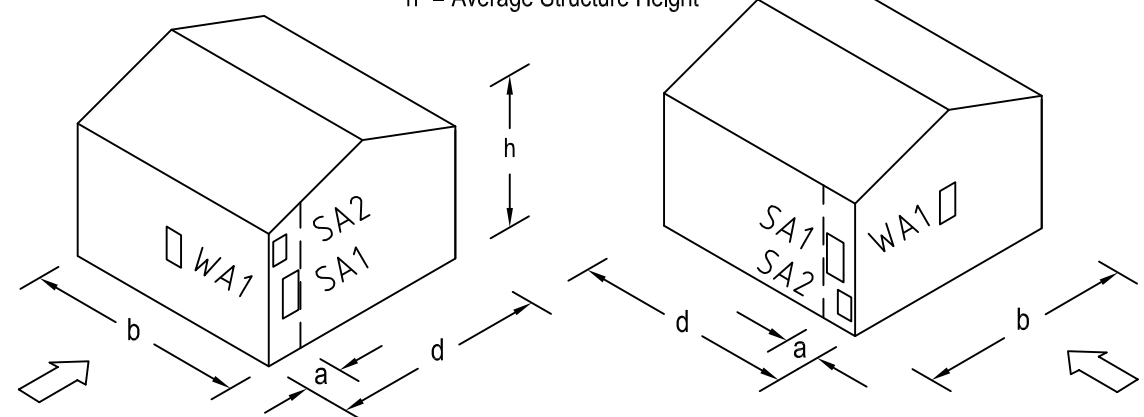
MATERIAL SPECIFICATION

METAL TYPE	THICKNESS	TEMPER	FINISH	COVER
AS1397-1984 G550 / AZ150	0.42mm BMT 0.48mm BMT	550 MPa 550 MPa	ZINCALUME, COLORBOND	700mm + - 4

MAX. ALLOWABLE WALL SHEETING SPANS FOR IMPORTANCE LEVEL 2 BUILDINGS

Vsit	qu	Cpe	Cpi	Kc,e = Kc,i	KL Local Factor	Cfig	Design pressure	Maximum Allowable Span (mm)	
							Pe = qu.(Cpe.KL.Kc,e + Cpi.Kc,i)	Three or more spans	
(m/s)	(kpa)						(kPa)	(mm)	
76	3.47	All other Areas	0.70	0.65	0.90	1	1.22	4.21	1400
		WA1	0.70	0.65	0.90	1.5	1.53	5.30	1110
		SA1	0.65	0.70	0.90	1.5	1.51	5.22	1130
		SA2	0.65	0.70	0.90	2	1.80	6.24	940
70	2.94	All other Areas	0.70	0.65	0.90	1	1.22	3.57	1650
		WA1	0.70	0.65	0.90	1.5	1.53	4.50	1310
		SA1	0.65	0.70	0.90	1.5	1.51	4.43	1330
		SA2	0.65	0.70	0.90	2	1.80	5.29	1110
66	2.61	All other Areas	0.70	0.65	0.90	1	1.22	3.18	1750
		WA1	0.70	0.65	0.90	1.5	1.53	4.00	1470
		SA1	0.65	0.70	0.90	1.5	1.51	3.94	1490
		SA2	0.65	0.70	0.90	2	1.80	4.70	1250
63	2.38	All other Areas	0.70	0.65	0.90	1	1.22	2.89	1840
		WA1	0.70	0.65	0.90	1.5	1.53	3.64	1620
		SA1	0.65	0.70	0.90	1.5	1.51	3.59	1640
		SA2	0.65	0.70	0.90	2	1.80	4.29	1370
61	2.23	All other Areas	0.70	0.65	0.90	1	1.22	2.71	1900
		WA1	0.70	0.65	0.90	1.5	1.53	3.42	1690
		SA1	0.65	0.70	0.90	1.5	1.51	3.37	1700
		SA2	0.65	0.70	0.90	2	1.80	4.02	1470
56	1.88	All other Areas	0.70	0.65	0.90	1	1.22	2.29	2000
		WA1	0.70	0.65	0.90	1.5	1.53	2.88	1840
		SA1	0.65	0.70	0.90	1.5	1.51	2.84	1850
		SA2	0.65	0.70	0.90	2	1.80	3.39	1700
50	1.50	All other Areas	0.70	0.65	0.90	1	1.22	1.82	2200
		WA1	0.70	0.65	0.90	1.5	1.53	2.30	2000
		SA1	0.65	0.70	0.90	1.5	1.51	2.26	2000
		SA2	0.65	0.70	0.90	2	1.80	2.70	1900

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	4.81

Fixing	No of Fixing	Batten
14g -10 x 50 mm Type 17 Screw	4	Timber
14g -10 x 25 mm Hex Head Teks	4	1.5 mm BMT Steel

Timber shall be Structural grade MGP12 or stronger
Steel shall be a minimum thickness of 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.
Insulation - when fixing over unsulation to wall girt increase screw length to maintain at least 3 treads protruding through the far side of the support.

Product Name
Steeline Steel Span Wall Cladding

Product Description
Steeline- Steel Span Screw Fixed Wall Cladding

Manufacturer's Details
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 in Deemed to Comply Manual

DTCM drawing number: M/739

Notes covering basis of DTC (Relevant test reports etc)

Test Report - The above specification is based on testing by ENGTEST The University of Adelaide Australia. Report No C081001-19 issued on 21 May 2009.

Blanmore Noosaville Test Report No 107 dated 31th August 2011.
Structural Engineering Consultants Darwin (SECA) 20437T dated 30 October 2020.

Checking Engineer
Name: John Towler
Registration Number: 24642ES
Date: 06.11.2020
Signature: *John Towler*
Must be an Australian registered structural engineer

Certifying Engineer
Name: Wisnu Lim
NT Registration Number: 145651ES
Date: 06.11.2020
Signature: *Wisnu Lim*
Must be a registered structural engineer in the Northern Territory

Chairperson Signature: *Paul Nowland*

Chairperson Name: Paul Nowland

Date of Approval: 18/12/2020 Expiry Date: 18/12/2025