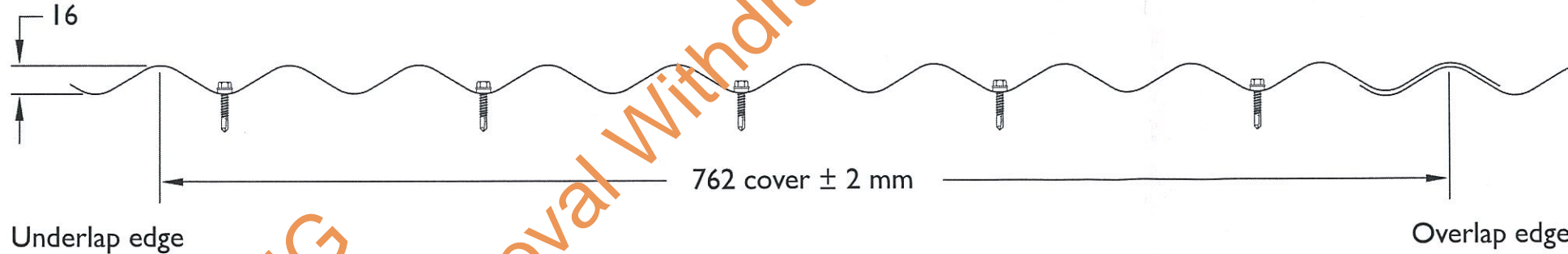


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.



CGI WALL CLADDING

Region C



Fastener Details		
Steel	Minimum 3.75mm (LMT)	Class 4 M4 x 5mm self drilling screw with neoprene washer, one to every second pan.
Timber	Hardwood F11/JD2 or stronger	Class 4 minimum 12 gauge timber screws with neoprene washer, minimum 35mm embedment depth.
	Softwood F7/JD4 or stronger	Class 4 minimum 12 gauge timber screws with neoprene washer, minimum 35mm embedment depth.

Note: For spans > 900mm side lap fixing midspan using an 8 x 15mm self drilling stitch screw with seal or 3.2mm sealed blind rivets are recommended (maximum 500mm centres). This provides a weather proof seal and secures the overlap.

Span (mm)	0.42mm BMT			0.48mm BMT		
	Single	End	Internal	Single	End	Internal
600	6.80	6.80	7.44	7.50	7.50	8.20
900	5.23	5.23	5.71	5.74	5.74	6.27
1200	3.90	3.90	4.27	4.27	4.30	4.70
1500	2.83	2.83	3.09	3.09	3.19	3.49
1800	2.00	2.00	2.19	2.19	2.40	2.62

Maximum Allowable Spans (mm)																						
Terrain Category	KI	Pz (kPa)	5m Maximum Average Roof Height						Pz (kPa)	10m Maximum Average Roof Height												
			0.42mm BMT			0.48mm BMT				0.42mm BMT			0.48mm BMT									
			Single	End	Internal	Single	End	Internal		Single	End	Internal	Single	End	Internal							
1.0	1.0	3.43	1320	1320	1400	1420	1420	1510	3.86	1210	1210	1290	1300	1300	1390	4.39	1080	1080	1170	1170	1170	1260
	1.5	4.26	1110	1110	1200	1210	1210	1300	4.79	990	990	1080	1090	1090	1180	5.45	850	850	950	950	950	1040
	2.0	5.08	920	920	1020	1020	1020	1120	5.72	800	800	890	900	900	990	6.51	650	650	750	760	760	860
	3.0	6.74	610	610	710	720	720	820	7.58	-	-	-	-	-	-	8.62	-	-	-	-	-	-
2.0	1.0	2.90	1470	1470	1550	1590	1590	1680	2.90	1470	1470	1550	1590	1590	1680	3.50	1300	1300	1380	1400	1400	1490
	1.5	3.60	1270	1270	1360	1370	1370	1460	3.60	1270	1270	1360	1370	1370	1460	4.34	1090	1090	1180	1180	1180	1270
	2.0	4.30	1100	1100	1190	1200	1200	1290	4.30	1100	1100	1190	1200	1200	1290	5.19	900	900	1000	1000	1000	1100
	3.0	5.69	800	800	900	900	900	1000	5.69	800	800	900	900	900	1000	6.87	-	-	-	700	700	800
2.5	1.0	2.65	1540	1540	1620	1670	1670	1770	2.68	1540	1540	1620	1670	1670	1770	2.93	1460	1460	1540	1580	1580	1670
	1.5	3.29	1350	1350	1430	1450	1450	1540	3.33	1350	1350	1430	1450	1450	1540	3.64	1260	1260	1350	1360	1360	1450
	2.0	3.93	1180	1180	1260	1280	1280	1360	3.97	1180	1180	1260	1280	1280	1360	4.34	1090	1090	1180	1190	1190	1280
	3.0	5.20	890	890	980	990	990	1080	5.26	890	890	980	990	990	1080	5.75	790	790	890	890	890	990
3.0	1.0	2.41	1630	1630	1710	1790	1790	1800	2.41	1630	1630	1710	1790	1790	1800	2.41	1630	1630	1710	1790	1790	1800
	1.5	2.99	1440	1440	1520	1520	1520	1650	2.99	1440	1440	1520	1560	1560	1650	2.99	1440	1440	1520	1560	1560	1650
	2.0	3.57	1280	1280	1360	1360	1360	1470	3.57	1280	1280	1360	1380	1380	1470	3.57	1280	1280	1360	1380	1380	1470
	3.0	4.73	1000	1000	1090	1100	1100	1190	4.73	1000	1000	1090	1100	1100	1190	4.73	1000	1000	1090	1100	1100	1190

Note: For walling applications a local pressure of KI=3.0 is only applicable on buildings with an average roof height which exceeds the buildings shortest horizontal plan dimension. Typically, building designs require cladding to be secured to every wall stud regardless of allowable cladding spans. Consult your project engineer for confirmation if this is not the case.

Product Name
CGI Wall Cladding (Corrugated Iron)

Product Description
Stratco CGI Wall Cladding is manufactured from 0.42 or 0.48 BMT G550 steel. Cladding available in colour or zinc/al finish, minimum AZ150 coating.

Manufacturer's Name
Stratco (Australia) Pty Ltd
780 Stuart Highway, Berrimah NT 0828. ABN 30 007 528 850

Design Criteria
The following criteria was used in the development of the tables:

- Region C with a annual probability of exceedance of 1:500
- Vr = Fc 66m/s (limit state), with Fc = 1.05
- Ms/Mt/Md = 1.00
- Kc,e = Kc,i = 0.9
- Importance Level 2

Height (m)	Terrain/Height Multiplier (Mz,cat)			
	1.0	2.0	2.5	3.0
≤3	0.99	0.91	0.87	0.83
≤5	1.05	0.91	0.87	0.83
≤10	1.12	1.00	0.92	0.83

Pressure Coefficients:
Internal Cp,i = +0.7
External Cp,e = -0.65

Limitations

- Design pressures and maximum allowable spans are based on five fasteners per sheet per support.
- Maximum allowable spans are based on design pressures for strength limit state. For serviceability limit state wind capacities, refer to the Stratco CGI Design Guide.
- When fixing over insulation, screw length shall be increased to ensure sufficient penetration of the fastener.
- Maximum allowable overhang is 200mm for wall cladding.
- For elevated buildings that allow flow under, the internal pressure coefficient increases to +0.8, maximum allowable spans are to be reduced by 8%.
- Refer AS/NZS 1170.2:2011 Structural design actions Part 2: Wind Actions for definition of local pressure zones.

Accepted for Inclusion

DTCM ref: M/260

Chairman's Signature:

Chairman's Name: STEVEN J HARLICH

Date of Approval: 10-4-14 Expiry Date: 10-4-19

- Testing in accordance with AS4040.3:1992.
- Design Criteria determined in accordance with AS/NZS 1170.2:2011 Wind Actions.
- CGI Walling Cyclonic Testing, Report No. 167, 01/2012 Stratco Testing Facility, Gepps Cross, South Australia.

**Design Engineers Certification
Name: Trevor John
Registration Number: 106278
Date: 28.03.2014
REF: 50067-4
Signature:
TREVOR JOHN
**registered as a structural engineer in Australia

**Certifying Engineers Certification
Name: Heiner Structural Engineering Consultants
NT Registration Number: NT 52229ES
Date: 27/3/2014
Signature:
**registered as a structural engineer in Northern Territory