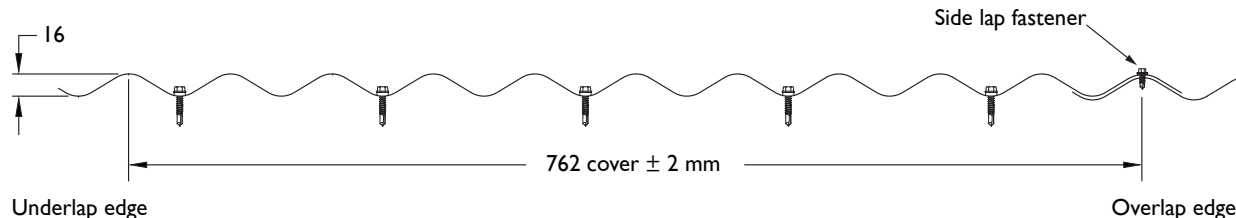


This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas

# CGI WALL CLADDING

## Region C



Fastener Details		
Steel	Minimum 0.75mm (BMT)	Class 4 M6 x 25mm self drilling screw with neoprene washer, fixed 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.

Design Pressures - Strength Limit State Capacity (kPa)						
Span (mm)	0.42mm BMT			0.48mm BMT		
	Single	End	Internal	Single	End	Internal
400	12.22	12.22	13.36	13.14	13.14	14.37
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)	3m Maximum Average Roof Height						5m Maximum Average Roof Height						10m Maximum Average Roof Height							
			0.42mm BMT			0.48mm BMT			Pz (kPa)	0.42mm BMT			0.48mm BMT			Pz (kPa)	0.42mm BMT			0.48mm BMT		
			Single	End	Internal	Single	End	Internal		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	550	550	600	590	590	690	8.62	500	500	550	540	540	590
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	590	590	690	700	700	800
2.5	1.0	2.65	1550	1550	1630	1690	1690	1780	2.65	1550	1550	1630	1690	1690	1780	2.96	1450	1450	1530	1570	1570	1660
	1.5	3.29	1360	1360	1440	1460	1460	1550	3.29	1360	1360	1440	1460	1460	1550	3.68	1250	1250	1340	1350	1350	1440
	2.0	3.93	1190	1190	1270	1290	1290	1380	3.93	1190	1190	1270	1290	1290	1380	4.39	1080	1080	1170	1170	1170	1260
	3.0	5.20	900	900	990	1000	1000	1090	5.20	900	900	990	1000	1000	1090	5.82	780	780	880	880	880	980
3.0	1.0	2.41	1600	1630	1710	1790	1790	1800	2.41	1600	1630	1710	1790	1790	1800	2.41	1600	1630	1710	1790	1790	1800
	1.5	2.99	1440	1440	1520	1560	1560	1650	2.99	1440	1440	1520	1560	1560	1650	2.99	1440	1440	1520	1560	1560	1650
	2.0	3.57	1280	1280	1360	1380	1380	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.

Notes covering basis of DTC (Relevant test reports etc)

- Testing in accordance with AS4040.3:2018.
- Design Criteria determined in accordance with AS/NZS1170.2:2021 Wind Actions.
- CGI Walling Cyclonic Testing, Report No. 167 Revision A, 07/2014 Stratco Testing Facility, Gepps Cross, South Australia.

### Checking Engineer

Name: Glenn Turner  
 Registration Number: NER 3823731  
 Date: 21/05/2024  
 Signature:

Must be an Australian registered structural engineer

### Certifying Engineer

Name: Matthew Mammone  
 NT Registration Number: 243890ES  
 Date: 21/05/2024  
 Signature:

Must be a registered structural engineer in the Northern Territory

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 AM100 coating.

Manufacturer's Details

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 an annual probability of exceedance of 1:500
- Vr = 66m/s (limit state), with Mc = 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	0.97	0.91	0.87	0.83
≤5	1.01	0.91	0.87	0.83
≤10	1.08	1.00	0.92	0.83

Pressure Coefficients:

Internal Cp,i = +0.7/-0.65  
 External Cp,e = -0.65/+0.8

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 1170.2:2021 Structural design actions Part 2: Wind Actions for definition of local pressure zones.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/383

Chairperson Signature:

Chairperson Name: Paul Nowland

Date of Approval: 24/05/2024 Expiry Date: 24/05/2029