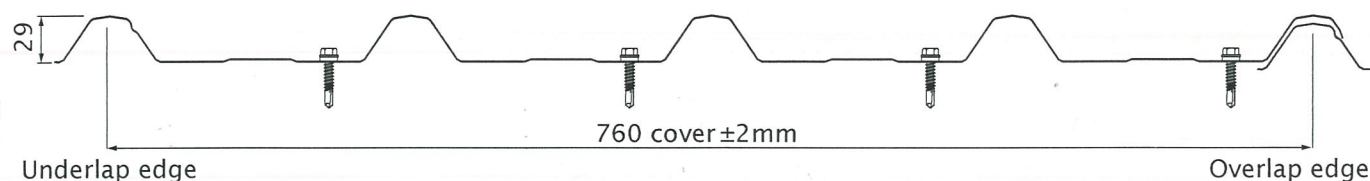




# SUPERDEK® WALL CLADDING

## Region C



Fixing screws to comply to AS3566. 1-2002 Self-drilling screws for the building and construction industries - General requirements and mechanical properties.

Fastener Details		
Steel	Minimum 0.75mm (BMT)	Class 4 M6 x 25mm self drilling screw with neoprene washer.
Timber	Hardwood F11/JD2 or stronger	Class 4 minimum 12g x 45 mm timber screws with neoprene washer; minimum 35mm embedment depth.
	Softwood F7/JD4 or stronger	Class 4 minimum 12g x 45 mm timber screws with neoprene washer; minimum 35mm embedment depth.

**Note:** For spans > 1200mm side lap fixing midspan using an 8 x 15mm self drilling stitch screw with seal or 3.2mm sealed blind rivets are recommended (maximum 600mm 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	11.50	11.50	12.58	13.14	13.14	14.37
600	6.90	6.90	7.55	8.00	8.00	8.75
900	4.71	4.71	5.15	5.78	5.78	6.32
1200	3.00	3.00	3.28	4.00	4.00	4.37
1500	1.78	1.78	1.95	2.65	2.65	2.90
1800	1.05	1.05	1.14	1.73	1.73	1.90
2100	0.80	0.80	0.87	1.25	1.25	1.37

Maximum Allowable Spans (mm)																						
Terrain Category	K1	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	1110	1110	1170	1310	1310	1380	3.86	1030	1030	1090	1220	1220	1290	4.39	940	940	1010	1120	1120	1190
	1.5	4.26	970	970	1030	1150	1150	1220	4.79	880	880	950	1050	1050	1120	5.45	790	790	850	950	950	1020
	2.0	5.08	840	840	900	1000	1000	1080	5.72	750	750	820	900	900	980	6.51	640	640	720	790	790	870
	3.0	6.74	620	620	690	760	760	840	7.58	550	550	600	650	650	730	8.62	500	500	540	560	560	610
1.5	1.0	3.16	1160	1160	1220	1370	1370	1430	3.36	1120	1120	1180	1320	1320	1390	3.93	1020	1020	1080	1210	1210	1280
	1.5	3.92	1020	1020	1080	1210	1210	1280	4.17	980	980	1040	1160	1160	1230	4.88	870	870	930	1040	1040	1110
	2.0	4.68	900	900	960	1070	1070	1140	4.98	850	850	920	1020	1020	1090	5.83	730	730	800	890	890	960
	3.0	6.20	680	680	750	830	830	910	6.60	630	630	710	780	780	860	7.72	540	540	590	630	630	720
2.0	1.0	2.90	1220	1220	1270	1430	1430	1490	2.90	1220	1220	1270	1430	1430	1490	3.50	1100	1100	1150	1300	1300	1360
	1.5	3.60	1080	1080	1140	1280	1280	1340	3.60	1080	1080	1140	1280	1280	1340	4.34	950	950	1010	1130	1130	1200
	2.0	4.30	960	960	1020	1140	1140	1210	4.30	960	960	1020	1140	1140	1210	5.19	820	820	890	990	990	1060
	3.0	5.69	750	750	820	910	910	980	5.69	750	750	820	910	910	980	6.87	600	600	670	740	740	820
2.5	1.0	2.65	1270	1270	1320	1500	1500	1560	2.65	1270	1270	1320	1500	1500	1560	2.96	1200	1200	1260	1420	1420	1480
	1.5	3.29	1140	1140	1190	1340	1340	1410	3.29	1140	1140	1190	1340	1340	1410	3.68	1070	1070	1120	1260	1260	1320
	2.0	3.93	1020	1020	1080	1210	1210	1280	3.93	1020	1020	1080	1210	1210	1280	4.39	940	940	1010	1120	1120	1190
	3.0	5.20	820	820	890	990	990	1060	5.20	820	820	890	990	990	1060	5.82	730	730	800	890	890	970
3.0	1.0	2.41	1320	1320	1380	1560	1560	1620	2.41	1320	1320	1380	1560	1560	1620	2.41	1320	1320	1380	1560	1560	1620
	1.5	2.99	1200	1200	1250	1410	1410	1470	2.99	1200	1200	1250	1410	1410	1470	2.99	1200	1200	1250	1410	1410	1470
	2.0	3.57	1080	1080	1140	1280	1280	1350	3.57	1080	1080	1140	1280	1280	1350	3.57	1080	1080	1140	1280	1280	1350
	3.0	4.73	890	890	950	1060	1060	1130	4.73	890	890	950	1060	1060	1130	4.73	890	890	950	1060	1060	1130

**Note:** For walling applications a local pressure of K1=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  
Superdek® Wall Cladding

Product Description  
Stratco Superdek® 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 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 an annual probability of exceedance of 1:500  
1. Vr = Fc 66m/s (limit state), with Fc = 1.05  
2. Ms/Mt/Md = 1.00  
3. Kc,e = Kc,i = 0.9  
4. Importance Level 2

Height (m)	Terrain/Height Multiplier (Mz,cat)				
	1.0	1.5	2.0	2.5	3.0
≤3	0.99	0.95	0.91	0.87	0.83
≤5	1.05	0.98	0.91	0.87	0.83
≤10	1.12	1.06	1.00	0.92	0.83

Pressure Coefficients:  
Internal Cp,i = +0.7  
External Cp,e = -0.65  
Design Criteria determined in accordance with AS/NZS 1170.2:2011 Wind Actions.

Limitations  
1. Design pressures and maximum allowable spans are based on four fasteners per sheet per support.  
2. The maximum allowable spans have considered serviceability requirements with an annual probability of exceedance of 1:25.  
3. When fixing over insulation, screw length shall be increased to ensure sufficient penetration of the fastener.  
4. Maximum allowable overhang is 200mm for wall cladding.  
5. For elevated buildings the external pressure coefficient increases and maximum allowable spans are to be reduced by 6%.  
6. Refer AS/NZS 1170.2:2011 Structural Design Actions Part 2: Wind Actions for definition of local pressure zones.

Accepted for Inclusion

DTCM ref: M1712

Notes covering basis of DTC (Relevant test reports etc)  
1. Testing in accordance with AS4040.3:1992.  
2. Superdek Cyclonic Walling Testing, Report No. 219, 23 April 2014 Stratco Testing Facility, Gepps Cross, South Australia.

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Date: 15/09/2020  
Signature:

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NT Registration Number: 243890ES  
Date: 16/09/2020  
Signature:

Chairman's Signature:

Chairman's Name: Paul Nowland

Date of Approval: 18-09-2020 Expiry Date: 18-09-2025