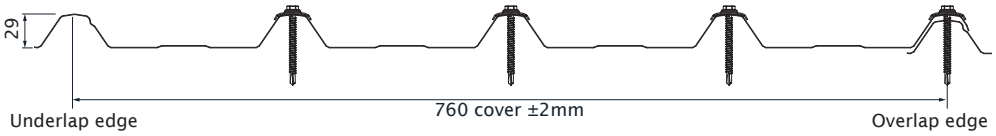
SUPERDEK® ROOF CLADDING

Region C



1.0mm G300 Cyclonic Washer with EPDM Seal

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 minimum 14g x 55mm self drilling screw with cyclonic washer assembly.
Timber	**Hardwood F11/JD2 or stronger**	Class 4 minimum 14g x 70mm self drilling screw with cyclonic washer assembly, embedded at least 35mm into timber.
	Softwood F7/JD4 or stronger	Class 4 minimum 14g x 70mm self drilling screw with cyclonic washer assembly, embedded at least 35mm into timber.

Note: For spans > 900mm side lap fixing midspan using an 8x15mm 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	10.76	10.76	11.77	11.23	11.23	12.28
700	6.51	6.51	7.12	7.50	7.50	8.20
1000	4.29	4.29	4.69	4.90	4.90	5.36
1300	2.60	2.60	2.84	2.95	2.95	3.23
1600	1.44	1.44	1.58	1.64	1.64	1.80
1900	0.82	0.82	0.90	0.98	0.98	1.07
2100	0.70	0.70	0.77	0.90	0.90	0.98

Maximum Allowable Spans (mm)

		3m Maximum Average Roof Height							5m Maximum Average Roof Height							10m Maximum Average Roof Height						
Terrain Category	**KI**	**Pz (kPa)**	**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	3.90	1060	1060	1110	1140	1140	1190	4.23	1000	1000	1060	1090	1090	1140	4.84	910	910	970	1000	1000	1060
	1.5	5.00	890	890	950	980	980	1040	5.42	830	830	900	930	930	990	6.20	730	730	800	840	840	900
	2.0	6.10	750	750	810	850	850	910	6.61	690	690	750	790	790	850	7.56	610	610	660	690	690	760
	3.0	8.30	550	550	600	620	620	680	8.99	500	500	550	560	560	610	10.28	420	420	460	460	460	500
2.0	1.0	3.44	1130	1130	1190	1210	1210	1260	3.44	1130	1130	1190	1210	1210	1260	4.15	1020	1020	1070	1100	1100	1150
	1.5	4.40	980	980	1040	1060	1060	1120	4.40	980	980	1040	1060	1060	1120	5.32	850	850	910	940	940	1000
	2.0	5.37	840	840	900	940	940	990	5.37	840	840	900	940	940	990	6.48	700	700	770	800	800	870
	3.0	7.30	630	630	690	720	720	780	7.30	630	630	690	720	720	780	8.82	510	510	560	570	570	630
2.5	1.0	3.14	1150	1190	1240	1260	1260	1310	3.14	1150	1190	1240	1260	1260	1310	3.51	1120	1120	1180	1200	1200	1250
	1.5	4.02	1040	1040	1090	1120	1120	1170	4.02	1040	1040	1090	1120	1120	1170	4.50	960	960	1020	1050	1050	1100
	2.0	4.91	900	900	960	990	990	1050	4.91	900	900	960	990	990	1050	5.49	820	820	890	920	920	980
	3.0	6.67	680	680	750	780	780	850	6.67	680	680	750	780	780	850	7.46	610	610	670	700	700	770
3.0	1.0	2.86	1150	1240	1290	1310	1310	1360	2.86	1150	1240	1290	1310	1310	1360	2.86	1150	1240	1290	1310	1310	1360
	1.5	3.66	1100	1100	1150	1170	1170	1220	3.66	1100	1100	1150	1170	1170	1220	3.66	1100	1100	1150	1170	1170	1220
	2.0	4.47	970	970	1030	1050	1050	1110	4.47	970	970	1030	1050	1050	1110	4.47	970	970	1030	1050	1050	1110
	3.0	6.07	750	750	820	850	850	910	6.07	750	750	820	850	850	910	6.07	750	750	820	850	850	910

Notes covering basis of DTC (Relevant test reports etc)

1. Cyclonic Fatigue Testing in accordance with the NCC 2022 BCA Volume Two - Low-High-Low Pressure Testing, and AS4040.3:2018.
2. Design Criteria determined in accordance with AS/NZS 1170.2:2021 *Wind Actions*.
3. Cyclonic Testing of Superdek® Roof Sheeting, Report no. 70 revision A, 05/2014, Stratco Testing Facility, Gepps Cross, South Australia.

Checking Engineer

Name: Glenn Turner

Registration Number: NER 3823731

Date: 16/07/2025

Signature:

Must be an **Australian** registered structural engineer

Certifying Engineer

Name: Hamish Bills

NT Registration Number: 127148ES

Date: 16/07/2025

Signature:

Must be a registered structural engineer in the **Northern Territory**

Product Name

Superdek® Roof Cladding

Product Description

Stratco Superdek® Roof 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 500 years (strength), 25 years (serviceability).

1. VR = 66m/s (limit state), with Mc = 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	**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
External Cp,e = -0.9

Design Criteria determined in accordance with AS/NZS1170.2:2021 *Wind Actions*.

Limitations

1. Design pressures and maximum allowable spans are based on four crest fasteners per sheet per support.
2. The maximum allowable spans have considered serviceability requirements.
3. When fixing over insulation, screw length should be increased to ensure sufficient penetration of the fastener.
4. When fixing to roof battens, roofing spans may be limited by the allowable batten spacing. Refer to the relevant roof batten DTC sheet.
5. Maximum allowable overhang is 200mm for roof cladding.
6. For pressure coefficients which vary from those specified in the design criteria, refer AS/NZS 1170.2:2021 Wind Actions for evaluation of pressure, Pz. Examples include elevated buildings and h/d ratios which exceed 0.5.
7. Refer AS/NZS 1170.2:2021 Structural Design Actions Part 2: Wind Actions for definition of local pressure zones.
8. Walk flat footed in pans and over supports where possible keeping your weight evenly distributed over the soles of your shoes.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/394/01-01

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 27/10/2025 Expiry Date: 27/10/2030