

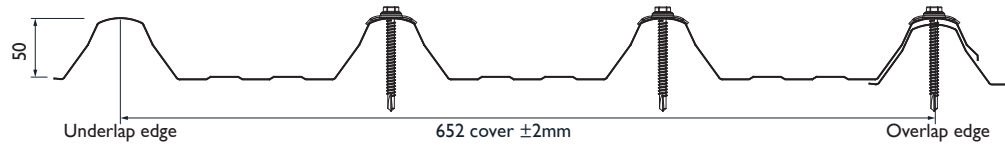
This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas

PRODEK® 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 1.5mm (BMT)	Class 4 minimum 14g x 70mm self drilling screw with cyclonic washer assembly.
Timber	Hardwood F11/JD2 or stronger	Class 4 minimum 14g x 90mm timber fix screw with cyclonic washer assembly, embedded at least 35mm into timber.
	Softwood F7/JD4 or stronger	Class 4 minimum 14g x 90mm timber fix 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 rivet is recommended (maximum 900mm 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
1000	6.58	6.58	7.20	7.22	7.22	7.90
1300	4.95	4.95	5.41	5.62	5.62	6.14
1600	3.62	3.62	3.95	4.28	4.28	4.68
1900	2.58	2.58	2.82	3.20	3.20	3.50
2200	1.84	1.84	2.01	2.39	2.39	2.61
2500	1.40	1.40	1.53	1.84	1.84	2.01
2700	1.27	1.27	1.39	1.62	1.62	1.77

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	1520	1520	1610	1690	1690	1780	4.23	1450	1450	1530	1610	1610	1700	4.84	1320	1320	1410	1460	1460	1560
	1.5	5.00	1280	1280	1370	1430	1430	1520	5.42	1200	1200	1290	1330	1330	1430	6.20	1060	1060	1160	1180	1180	1280
	2.0	6.10	1080	1080	1170	1200	1200	1300	6.61	990	990	1090	1100	1100	1210	7.56	830	830	900	930	930	1050
	3.0	8.30	710	710	780	810	810	880	8.99	610	610	670	700	700	760	10.28	450	450	490	510	510	560
2.0	1.0	3.44	1640	1640	1720	1820	1820	1910	3.44	1640	1640	1720	1820	1820	1910	4.15	1470	1470	1550	1630	1630	1720
	1.5	4.40	1410	1410	1500	1560	1560	1660	4.40	1410	1410	1500	1560	1560	1660	5.32	1220	1220	1310	1360	1360	1460
	2.0	5.37	1210	1210	1300	1350	1350	1450	5.37	1210	1210	1300	1350	1350	1450	6.48	1010	1010	1110	1130	1130	1230
	3.0	7.30	870	870	950	980	980	1090	7.30	870	870	950	980	980	1090	8.82	640	640	700	720	720	790
2.5	1.0	3.14	1720	1720	1800	1910	1910	2000	3.14	1720	1720	1800	1910	1910	2000	3.51	1620	1620	1700	1800	1800	1890
	1.5	4.02	1500	1500	1580	1660	1660	1750	4.02	1500	1500	1580	1660	1660	1750	4.50	1390	1390	1470	1540	1540	1640
	2.0	4.91	1300	1300	1390	1450	1450	1540	4.91	1300	1300	1390	1450	1450	1540	5.49	1190	1190	1280	1320	1320	1420
	3.0	6.67	980	980	1080	1090	1090	1200	6.67	980	980	1080	1090	1090	1200	7.46	840	840	920	950	950	1060
3.0	1.0	2.86	1810	1810	1880	2010	2010	2100	2.86	1810	1810	1880	2010	2010	2100	2.86	1810	1810	1880	2010	2010	2100
	1.5	3.66	1580	1580	1660	1760	1760	1850	3.66	1580	1580	1660	1760	1760	1850	3.66	1580	1580	1660	1760	1760	1850
	2.0	4.47	1400	1400	1480	1550	1550	1640	4.47	1400	1400	1480	1550	1550	1640	4.47	1400	1400	1480	1550	1550	1640
	3.0	6.07	1080	1080	1180	1200	1200	1310	6.07	1080	1080	1180	1200	1200	1310	6.07	1080	1080	1180	1200	1200	1310

Notes covering basis of DTC (Relevant test reports etc)

- Cyclonic Fatigue Testing in accordance with the NCC 2022 BCA Volume Two - Low-High-Low Pressure Testing.
- Design Criteria determined in accordance with AS/NZS 1170.2:2021 Wind Actions.
- Cyclonic Testing of Prodek® Roof Sheeting, Report no. 72 revision A, 10/06/2014, Stratco Testing Facility, Gepps Cross, South Australia.

Checking Engineer

Name: Glenn Turner
Registration Number: NER 3823731
Date: 2/04/2026
Signature:

Must be an Australian registered structural engineer

Certifying Engineer

Name: Matthew Mammone
NT Registration Number: 243890 ES
Date: 02/04/2026
Signature:

Must be a registered structural engineer in the Northern Territory

Product Name

Prodek® Roof Cladding

Product Description

Stratco Prodek® 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 were used in the development of the tables:
Region C with an annual probability of exceedence of 500 years (strength), 25 years (serviceability).

- 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
External Cp,e = -0.9

Design Criteria determined in accordance with AS/NZS 1170.2:2021 Wind Actions.

Limitations

- Design pressures and maximum allowable spans are based on all crests being fastened to supports.
- The maximum allowable spans have considered serviceability requirements.
- When fixing over insulation, screw length should be increased to ensure sufficient penetration of the fastener.
- When fixing to supports, roofing spans may be limited by the allowable support spacing. Refer to relevant engineering specifications.
- Maximum allowable overhang is 200mm for roof cladding.
- 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.
- Refer AS/NZS 1170.2:2021 Structural Design Actions Part 2: Wind Actions for definition of local pressure zones.
- Prodek® roofing requires minimum 1° roof pitch.
- 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/461/01-01

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 30/04/2026 Expiry Date: 30/04/2031