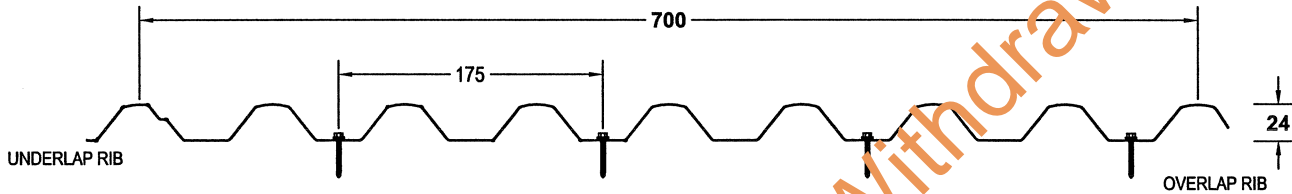


SMARTSPAN CLADDING FOR WALLING.



MATERIAL SPECIFICATIONS: 0.42mm or 0.48mm BMT AS1397/G550 AZ150

Cyclonic testing was carried out in accordance with AS4040.3 using the BCA 2004 Volume 1, NT B1.2 (c) (ii), *Design of Buildings in Cyclonic Areas*.

Testing Authority: Engtest Civil and Environmental, The School of Civil and Environmental Engineering, Adelaide University.

Test Report: C040302B - 02/04/04.

Tables are determined in accordance with AS 1170.2 2002, *Wind Actions*, using polynomial interpolation of test results, subject to maximum recommended spans.

The maximum allowable overhang is 100mm for walls.

When fixing over insulation screw length should be increased to ensure sufficient penetration of the fastener.

Side lap fixing is recommended at midspan to maintain a weather proof seal and secure the overlap. Use either 8 x 12mm self drilling stitching screws or 3mm sealed blind rivets.

FASTENER DETAILS:

Steel	2mm to 3mm	14-10 x 25mm Hex Head Screw.
	3mm to 5mm	14-20 x 25mm Hex Head Screw.
Timber	Hardwood	14-10 x 25mm Type 17 Hex Head Screw.
	Softwood	14-12 x 50mm Type 17 Hex Head Screw.

The following criteria was used in the development of the tables;

Region C with a design return period of 500 years.

$V_R = F_c 66$ m/s (limit state), with $F_c = 1.05$.

Limit State wind speeds have been reduced by the square root of 1.5 to obtain permissible stress gust wind speeds.

$M_s, M_t, M_d = 1.00$

Height (m)	Terrain / height Multiplier ($M_{z,cat}$)		
	1 & 2	2.5	3 & 4
≤5	0.95	0.88	0.80
≤10	1.00	0.95	0.89

Pressure Coefficients:

Internal, $C_{pi} = +0.7$.

External, $C_{pe} = -0.65$.

DESIGN PRESSURES, P_z (kPa):

Span (mm)	0.42mm BMT			0.48mm BMT		
	Single	End	Internal	Single	End	Internal
600	3.24	3.24	3.79	3.78	3.78	4.42
900	2.87	2.87	3.35	3.28	3.28	3.83
1200	2.50	2.50	2.92	2.81	2.81	3.28
1500	2.15	2.15	2.51	2.38	2.38	2.78
1800	1.80	1.80	2.10	1.98	1.98	2.31
2100	1.46	1.46	1.71	1.62	1.62	1.89
2400	1.13	1.13	1.32	1.29	1.29	1.50

MAXIMUM ALLOWABLE SPANS (mm):

Terrain Category	KI	5m Maximum Height							10m Maximum Height						
		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
1 & 2	1	2.34	1330	1330	1620	1520	1520	1780	2.59	1120	1120	1430	1340	1340	1610
	1.5	2.90	870	870	1210	1130	1130	1420	3.22	610	610	990	930	930	1230
	2	3.47	-	-	810	780	780	1090	3.84	-	-	-	-	-	890
2.5	1	1.99	1630	1630	1880	1790	1790	2020	2.32	1350	1350	1640	1540	1540	1790
	1.5	2.46	1230	1230	1530	1430	1430	1700	2.87	890	890	1230	1150	1150	1440
	2	2.94	830	830	1180	1110	1110	1400	3.43	-	-	840	800	800	1110
3 & 4	1	1.66	1920	1920	2130	2060	2060	2270	2.05	1570	1570	1830	1740	1740	1970
	1.5	2.06	1570	1570	1830	1730	1730	1970	2.55	1160	1160	1470	1370	1370	1640
	2	2.46	1230	1230	1530	1440	1440	1700	3.04	750	750	1110	1040	1040	1340

LIMITATIONS OF USE:

- Not to be used with 0.75mm metal battens.

KBR
Kellogg Brown & Root Pty Ltd
ABN 91 007 660 317
Reg. No. - KEES8332

Certified:

[Signature]

Date:

10/6/04

SMARTSPAN STEEL CLADDING

STRATCO (N.T.) PTY. LTD.
780 STUART HIGHWAY
BERRIMAH, N.T. 0828

DESIGN DATA SHEET

[Signature] 18.6.04 M/217/8 Amdt.
APPROVED DATE DRAWING NUMBER.