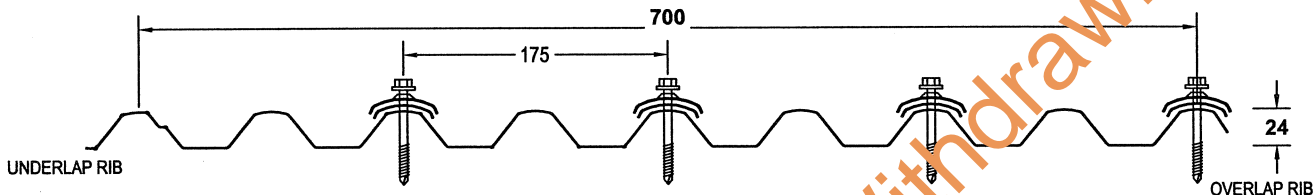


SMARTSPAN CLADDING WITH CYCLONIC WASHERS FOR WALLING.



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: C030407 - 09/09/03.

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 300mm 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	1.2mm to 3mm	14-10 x 50mm Hex Head Screw with cyclonic washer assembly.
	3mm to 5mm	14-20 x 50mm Hex Head Screw with cyclonic washer assembly.
Timber	Hardwood	14-10 x 55mm Type 17 Hex Head Screw with cyclonic washer assembly.
	Softwood	14-10 x 75mm Type 17 Hex Head Screw with cyclonic washer assembly.

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

Region C with a design return period of 500 years.
 $V_w = F_c 66 \text{ m/s}$ (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.
 $M_s, M_t, M_d = 1.00$

Refer Drawing No. M/115/6012 for ITW Buildex cyclonic washer assembly

DESIGN PRESSURES, P_z (kPa):

Span (mm)	0.42mm BMT			0.48mm BMT		
	Single	End	Internal	Single	End	Internal
900	5.04	5.04	5.89	5.49	5.49	6.41
1200	3.84	3.84	4.48	4.50	4.50	5.26
1500	2.85	2.85	3.33	3.66	3.66	4.28
1800	2.07	2.07	2.42	2.97	2.97	3.47
2100	1.50	1.50	1.75	2.43	2.43	2.84
2400	1.15	1.15	1.34	2.04	2.04	2.38

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, $C_{pe} = -0.65$.

MAXIMUM ALLOWABLE SPANS (mm):

Terrain Category	K1	Pz (kPa)	5m Maximum Height						10m Maximum Height						
			0.42mm BMT			0.48mm BMT			0.42mm BMT			0.48mm BMT			
			Single	End	Internal	Single	End	Internal	Single	End	Internal	Single	End	Internal	
1 & 2	1	2.34	1680	1680	1830	2150	2150	2430	2.59	1580	1580	1730	1990	1990	2240
	1.5	2.90	1480	1480	1620	1830	1830	2060	3.22	1380	1380	1530	1680	1680	1910
2.5	2	3.47	1300	1300	1460	1570	1570	1800	3.84	1190	1190	1350	1430	1430	1650
	1	1.99	1830	1830	1980	2450	2450	2700	2.32	1690	1690	1830	2170	2170	2450
3 & 4	1.5	2.46	1630	1630	1780	2070	2070	2330	2.87	1490	1490	1630	1840	1840	2080
	2	2.94	1460	1460	1610	1810	1810	2040	3.43	1310	1310	1470	1590	1590	1810
	1	1.66	2000	2000	2150	2700	2700	2700	2.05	1800	1800	1950	2380	2380	2700
	1.5	2.06	1800	1800	1940	2380	2380	2700	2.55	1600	1600	1750	2020	2020	2270
	2	2.46	1640	1640	1780	2080	2080	2340	3.04	1430	1430	1580	1760	1760	1990

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

SMARTSPAN STEEL CLADDING

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

DESIGN DATA SHEET

APPROVED: *[Signature]* 18.6.04 DATE: M/217/9 Amdt. DRAWING NUMBER.

Certified:

[Signature]

Date:

10/6/04