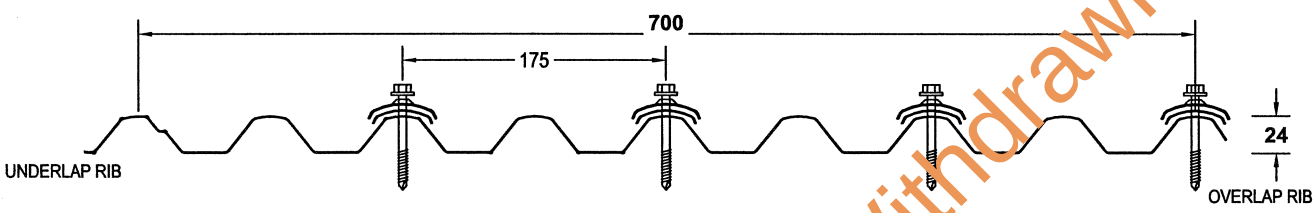
Approved for inclusion in DEEMED TO COMPLY by BUILDING ADVISORY COMMITTEE Date 30/8/04

SMARTSPAN CLADDING WITH CYCLONIC WASHERS FOR ROOFING.



WARNING
Product Approval Withdrawn
May 2009

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 200mm for roofs.
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 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 65mm Type 17 Hex Head Screw with cyclonic washer assembly.
	Softwood	14-10 x 75mm Type 17 Hex Head Screw with cyclonic washer assembly.

Refer Drawing No. M/115/6[illegible]12 for ITW Buildex 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_R=Fc 66 m/s (limit state), with Fc=1.05.
Limit State wind speeds have been reduced by the square root of 1.5 to obtain permissible stress gust wind speeds.
Ms, Mt, Md = 1.00

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

Pressure Coefficients:
Internal, Cpi = +0.7.
External, Cpe = -0.9.

DESIGN PRESSURES, Pz (kPa):

Span	0.42mm BMT			0.48mm BMT		
(mm)	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

MAXIMUM ALLOWABLE SPANS (mm):

		5m Maximum Height							10m Maximum Height						
Terrain Category	KI	Pz	0.42mm BMT			0.48mm BMT			Pz	0.42mm BMT			0.48mm BMT		
		(kPa)	Single	End	Internal	Single	End	Internal	(kPa)	Single	End	Internal	Single	End	Internal
	1	2.77	1300	1520	1670	1890	1890	2130	3.07	1300	1420	1570	1750	1750	1970
1 & 2	1.5	3.55	1280	1280	1430	1540	1540	1760	3.94	1170	1170	1330	1390	1390	1610
	2	4.33	1060	1060	1230	1250	1250	1480	4.80	950	950	1120	1100	1100	1330
	1	2.35	1300	1680	1820	2000	2150	2420	2.74	1300	1530	1680	1910	1910	2150
2.5	1.5	3.02	1300	1440	1590	1770	1770	2000	3.52	1290	1290	1440	1550	1550	1780
	2	3.68	1240	1240	1400	1490	1490	1710	4.29	1080	1080	1240	1270	1270	1490
	1	1.97	1300	1800	1990	2000	2200	2700	2.43	1300	1640	1790	2000	2090	2350
3 & 4	1.5	2.52	1300	1610	1760	2000	2040	2290	3.12	1300	1410	1560	1720	1720	1950
	2	3.07	1300	1420	1570	1750	1750	1970	3.80	1200	1200	1360	1440	1440	1660

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: Date: 10/6/04

SMARTSPAN STEEL CLADDING

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

DESIGN DATA SHEET

APPROVED 18.6.04 DATE M/116/7 Amdt. DRAWING NUMBER.