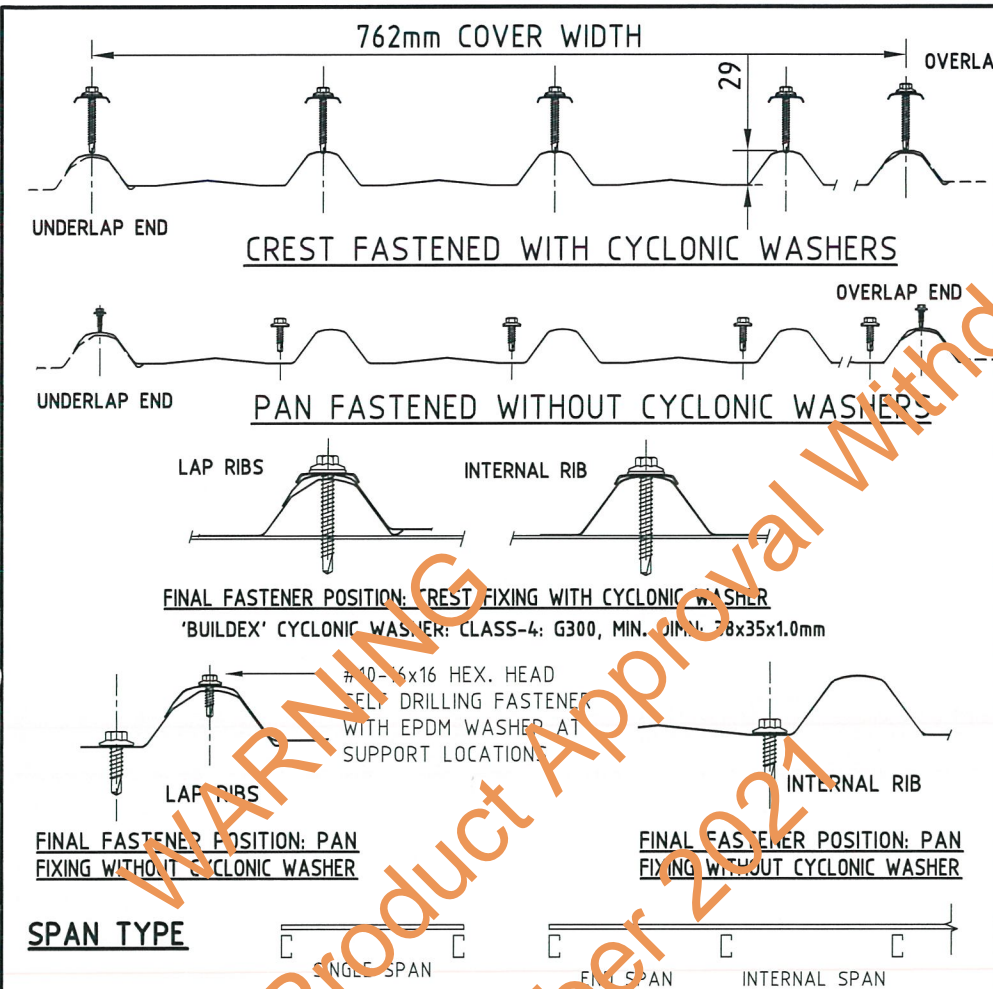


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1) THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENTS P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.



**WALL DESIGN CAPACITY TABLES**  
ULTIMATE LIMIT STATE PRESSURE (kPa)

SPAN mm	0.42 BMT						0.48 BMT					
	PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS			PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS		
	SGL.	END	INT.	SGL.	END	INT.	SGL.	END	INT.	SGL.	END	INT.
600	10.80	5.94	7.43	10.80	10.80	10.80	10.80	6.21	10.80	10.80	10.80	10.80
900	6.25	4.31	5.49	7.03	7.23	8.02	6.84	4.74	7.68	7.88	7.65	8.61
1200	2.97	2.96	3.93	4.15	4.43	5.70	3.80	3.50	5.21	5.47	5.15	6.69
1500	0.96	1.91	2.75	2.14	2.40	3.83	3.06	2.48	4.34	3.56	3.29	5.05
1800	0.87	1.15	1.93	1.02	1.15	2.43	2.33	1.70	3.48	2.16	2.09	3.68
2100	0.77	0.68	1.49	0.77	0.68	1.49	1.59	1.14	2.62	1.25	1.85	2.58
2400	N/A	N/A	N/A	N/A	N/A	N/A	0.86	0.81	1.76	0.86	1.62	1.76

SGL. = SINGLE SPAN, END = END SPAN, INT. = INTERNAL SPAN

**MAXIMUM SPAN TABLES (mm)**

BUILDING HEIGHT	TERRAIN CATEGORY	K1	pz (kPa)	0.42 mm BMT						0.48 BMT					
				PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS			PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS		
				SINGLE	END	INTERNAL	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL
UP TO 5M	1	1	3.86	1110	990	1210	1240	1280	1490	1190	1110	1660	1450	1400	1760
		1.5	4.79	1030	810	1030	1130	1160	1340	1100	880	1340	1300	1250	1550
		2	5.72	940	640	860	1030	1060	1190	1010	700	1130	1160	1130	1370
	2	1	2.90	1210	1210	1460	1380	1420	1690	1560	1370	2000	1640	1590	2010
		1.5	3.60	1140	1050	1280	1280	1320	1550	1280	1170	1750	1490	1450	1820
		2	4.30	1070	900	1120	1180	1210	1420	1150	1000	1510	1380	1330	1660
	2.5	1	2.65	1240	1280	1530	1420	1460	1750	1660	1450	2080	1690	1660	2080
		1.5	3.29	1170	1120	1360	1320	1360	1610	1400	1260	1860	1550	1500	1900
		2	3.93	1110	980	1200	1230	1270	1480	1180	1090	1640	1440	1390	1740
	3	1	2.41	1280	1350	1620	1460	1490	1800	1760	1520	2170	1740	1710	2160
		1.5	2.99	1190	1190	1430	1370	1410	1680	1520	1350	1970	1620	1570	1980
		2	3.57	1140	1060	1290	1280	1320	1550	1290	1180	1760	1490	1450	1820
4	1	4.73	1030	820	1040	1130	1160	1350	1100	900	1360	1310	1260	1560	
	1.5	2.44	1270	1340	1610	1450	1490	1790	1750	1510	2160	1730	1710	2150	
	2	2.92	1200	1210	1450	1380	1420	1690	1550	1370	1990	1630	1590	2000	
UP TO 10M	1	1	4.39	1070	880	1110	1170	1200	1410	1140	980	1480	1370	1320	1640
		1.5	5.45	970	680	900	1060	1090	1230	1030	750	1170	1200	1160	1420
		2	6.51	880	N/A	740	950	970	1090	930	N/A	1040	1070	1030	1230
	2	1	3.50	1150	1070	1300	1290	1330	1570	1320	1190	1790	1510	1460	1840
		1.5	4.34	1070	890	1120	1180	1210	1410	1140	990	1500	1370	1330	1650
		2	5.19	990	730	950	1090	1110	1280	1060	800	1200	1240	1190	1470
	2.5	1	2.96	1200	1200	1440	1370	1410	1680	1540	1350	1980	1620	1580	1990
		1.5	3.68	1130	1030	1260	1270	1310	1530	1240	1150	1730	1480	1430	1790
		2	4.39	1070	880	1110	1170	1200	1410	1140	980	1480	1370	1320	1640
	3	1	5.82	930	620	840	1020	1050	1180	1000	670	1120	1150	1110	1350
		1	2.41	1280	1350	1620	1460	1490	1800	1760	1520	2170	1740	1710	2160
		1.5	2.99	1190	1190	1430	1370	1410	1680	1520	1350	1970	1620	1570	1980
4	1	3.57	1140	1060	1290	1280	1320	1550	1290	1180	1760	1490	1450	1820	
	1.5	2.44	1270	1340	1610	1450	1490	1790	1750	1510	2160	1730	1710	2150	
	2	2.92	1200	1210	1450	1380	1420	1690	1550	1370	1990	1630	1590	2000	
4	1	4.73	1030	820	1040	1130	1160	1350	1100	900	1360	1310	1260	1560	
	1.5	2.44	1270	1340	1610	1450	1490	1790	1750	1510	2160	1730	1710	2150	
	2	2.92	1200	1210	1450	1380	1420	1690	1550	1370	1990	1630	1590	2000	
4	1	3.87	1110	990	1210	1240	1280	1490	1190	1110	1660	1450	1400	1750	
	1.5	5.45	970	680	900	1060	1090	1230	1030	750	1170	1200	1160	1420	
	2	6.51	880	N/A	740	950	970	1090	930	N/A	1040	1070	1030	1230	

**RECOMMENDED FASTENERS**

STEEL SUPPORTS - CLASS 4 : SELF DRILLING & SELF TAPPING HEX HEAD SCREW WITH EPDM SEAL				TIMBER SUPPORTS - CLASS 4 : TYPE 17 SELF DRILLING HEX HEAD SCREW WITH EPDM SEAL		FASTENER NOTATION	
LOCATION ON CLADDING	SINGLE & LAPPED THICKNESS 0.75mm UP TO 1.0mm bmt.	SINGLE THICKNESS ≥ 1.0mm UP TO 3.0mm bmt.	LAPPED THICKNESS > 1.0mm UP TO 1.9mm bmt. (3.8mm TOTAL)	LOCATION ON CLADDING	HARDWOOD (STRENGTH GROUP J1-J3)	SOFTWOOD (STRENGTH GROUP J4)	
CREST	M6.5 (#14)-12x55 CYCLONIC ROOFZIPS	#14 - 10 x 50 HH	#14 - 10 x 50 HH	CREST	#12 - 11 x 65 T17 HH HG/TG	#14 - 10 x 65 T17 HH M6 -11 x 65 ROOFZIPS	HH - HEX. HEAD HG - HIGH GRIP TG - TOP GRIP T17 - TYPE 17
PAN	M6.5 (#14)-12x30 CYCLONIC ROOFZIPS	#14 - 10 x 25 HH	#14 - 10 x 25 HH	PAN	#12 - 11 x 25 T17 HH	#14 - 10 x 50 T17 HH	

Notes covering basis of DTCM sheet (Relevant test reports etc)

- TRIMDEK 0.42 + 0.48 BMT CYCLONIC ROOF & WALL PRESSURE TESTS. PROJECT #501855. JUNE 2008. BLUESCOPE STEEL LYSAGHT No 7 FERNGROVE PLACE, CHESTER HILL 2162 NSW - AUSTRALIA.
- STATIC & CYCLIC FATIGUE WITHDRAWAL CAPACITIES OF SELF DRILLING SCREWS IN TIMBER SUPPORTS. REPORT: 5.1.2-REPORT 05. DECEMBER 2010. LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.
- CYCLIC PULLOUT CAPACITIES OF BUILDDEX M6.5-12X55 CYCLONIC ZIP SCREWS. REPORT: 5.1.3 - REPORT 05. JUNE 2010. BLUESCOPE LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.
- SCREW PULLOUT CAPACITIES TO BUILDING CODES OF AUSTRALIA'S LOW-HIGH-LOW CYCLONIC TEST REGIME. REPORT: 5.1.2 - REPORT 02. SEPTEMBER 2009. LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.

\*\*Checking Engineers Certification  
Name: KAVITHA MYSORE  
Rego Number: MIE Aust. 2089547  
Date: 26/09/2016  
Signature: *H.K. Kavitha*  
\*\*registered as a structural engineer in Australia

\*\*Certifying Engineers Certification  
Name: STEPHEN HEALEY  
NT Rego Number: 34856ES  
Date: 27 September 2016  
Signature: *[Signature]*  
\*\*registered as a structural engineer in Northern Territory

**Product Name**  
TRIMDEK - WALLING FOR CYCLONIC REGIONS

**Product Description**  
TRIMDEK WALLING IS MANUFACTURED FROM 0.42mm & 0.48mm BMT G550, AM125 ZINCALUME, AM100 COLORBOND/COLORBOND METALLIC, AM150 COLORBOND ULTRA. Z450 GALVSPAN MATERIAL IS AVAILABLE IN SOME LOCATIONS.

**Manufacturer's Name**  
**LYSAGHT**  
BlueScope Limited  
A.B.N. 16 000 011 058  
Trading as Lysaght

**Design Criteria**  
THE FOLLOWING CRITERIA FROM AS/NZS 1170.2:2011 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTIONS (INCORPORATING AMENDMENT No. 1,2&3) HAVE BEEN USED TO GENERATE THE TABLES.  
1. IMPORTANCE LEVEL 2 WITH RETURN PERIOD OF 500 YEARS  
2. VR = 66xFc = 66x1.05 = 69.3 m/sec  
3. Ms = Mt = Md = 1.0  
4. Cpe = +0.7 / -0.65; Cpi = -0.65 / +0.7 Kce & Kci = 0.9  
5. HEIGHT MULTIPLIERS FROM TABLE 4.1 OF AS/NZS 1170.2:2011 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTIONS (INCORPORATING AMENDMENT No. 1,2&3) HAVE BEEN USED TO GENERATE THE TABLES.

HEIGHT (m)	TERRAIN / HEIGHT MULTIPLIER (Mz,cat)				
	1	2	2.5	3	4
<=5	1.05	0.91	0.87	0.83	0.75
<=10	1.12	1.00	0.92	0.83	0.75

**Limitations**

- THE DATA IN THIS SHEET SHALL BE APPLICABLE TO TRIMDEK WALLING ONLY. PROFILE DIMENSIONS OF TRIMDEK AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH TRIMDEK PRODUCT DRAWINGS AS DEVELOPED BY LYSAGHT.
- WALL DESIGN CAPACITY TABLES & MAXIMUM SPAN TABLES HAVE BEEN DEVELOPED FOR TIMBER SUPPORTS & STEEL SUPPORTS 1.5mm BMT OR THICKER. FOR STEEL SUPPORT LESS THAN 1.5mm BMT, REFER TO APPROPRIATE DTCM SHEET FOR MAXIMUM BATTEN SPACING.
- INSTALLATION SHALL BE IN ACCORDANCE WITH LYSAGHT CYCLONIC AREA DESIGN MANUAL AND TRIMDEK MANUAL.
- MAXIMUM SPAN TABLES ARE BASED ON MAXIMUM ROOF HEIGHT = 10M.
- MAXIMUM OVERHANG SHALL BE DETAILED ACCORDING TO CURRENT LYSAGHT ROOFING & WALLING INSTALLATION MANUAL.
- Pz (PRESSURE) IN THE TABLES SHALL BE INCREASED ACCORDING TO AS/NZS 1170.2:2011, STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTIONS (INCORPORATING AMENDMENT No. 1,2 & 3) AS/NZS 1170.2: 2011 CLAUSE 5.4.1 IN THE CASE OF: ELEVATED BUILDING ALLOWING FOR AIR FLOW UNDER: - h/b > 1, - h/d > 1. \*
- NO PRE-BORED HOLES PERMITTED.
- TRIMDEK COMPLIES WITH AUSTRALIAN STANDARDS FOR THE FOLLOWING REQUIREMENTS:  
A. SERVICEABILITY: AS/NZS 1170.0: 2002 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES (INCORPORATING AMENDMENT 1,2,3,4&5)  
B. WIND LOADING: AS/NZS 1170.2: 2011 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTION (INCORPORATING AMENDMENT No. 1,2&3)
- SERVICEABILITY LIMIT STATE PRESSURES CAN BE OBTAINED BY MULTIPLYING WALL DESIGN CAPACITY TABLES BY A FACTOR 0.46.
- INCREASE SCREW LENGTH IF FIXING OVER INSULATION TO MAINTAIN A MIN. OF 3 SCREW THREADS PROTRUDING ON THE FAR SIDE STEEL SUPPORT.
- FOR STRENGTH GROUPS OF TIMBER, REFER TO AS 1720.2: 2006 TIMBER STRUCTURES PART 2: TIMBER PROPERTIES (INCORPORATING AMENDMENT No. 1).
- DESIGN TABLES ARE BASED ON TEST RESULTS COMPATIBLE TO AS 4040.3 - 1992 METHODS OF TESTING SHEET ROOF AND WALL CLADDING METHOD 3: RESISTANCE TO WIND PRESSURES FOR CYCLONE REGIONS.
- PRODUCT METALLIC COATING COMPLIES WITH AS 1397-2011 : CONTINUOUS HOT-DIP METALLIC COATED STEEL SHEET AND STRIP - COATINGS OF ZINC AND ZINC ALLOYED WITH ALUMINIUM AND MAGNESIUM & AS/NZS 2728: 2013 PREFINISHED/PREPAINTED SHEET METAL PRODUCTS FOR INTERIOR/EXTERIOR BUILDING APPLICATIONS - PERFORMANCE REQUIREMENTS

Accepted for Inclusion

DTCM REF: M/306/01

Chairman's Signature: *[Signature]*

Chairman's Name: Peter Russell

Date of Approval: 03/10/2016 Expiry Date: 02/10/2021