



WALL DESIGN CAPACITY TABLES

SPANDEK: 0.42 BMT - ULTIMATE LIMIT STATE PRESSURE (kPa)

SPAN mm	PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS		
	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL
600	8.17	4.05	5.07	10.80	10.80	10.80
900	5.51	3.01	3.95	7.48	7.52	8.14
1200	2.93	2.20	3.03	4.66	4.97	5.98
1500	1.76	1.62	2.30	2.95	3.13	4.30
1800	1.50	1.26	1.78	1.74	2.02	3.22
2100	1.24	1.13	1.45	1.24	1.42	2.43

SPANDEK: 0.48 BMT - ULTIMATE LIMIT STATE PRESSURE (kPa)

SPAN mm	PAN FASTENED WITHOUT CYCLONIC WASHERS			CREST FASTENED WITH CYCLONIC WASHERS		
	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL
600	10.8	6.21	7.76	10.80	10.80	10.80
900	6.37	4.74	5.81	8.04	7.56	8.74
1200	3.11	3.49	4.26	5.77	5.00	6.92
1500	2.73	2.48	3.11	3.99	3.13	5.34
1800	2.36	1.71	2.75	2.71	2.63	4.00
2100	1.99	1.16	2.40	1.92	2.12	2.91
2400	1.62	0.86	2.05	1.62	1.62	2.05

MAXIMUM SPAN TABLES

BUILDING HEIGHT	TERRAIN CATEGORY	K1	Pz (kPa)	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		
				SINGLE	END	INTERNAL	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL	SINGLE	END	INTERNAL
UP TO 5M	1 & 2	1	3.51	1020	750	1040	1410	1430	1700	1160	1190	1390	1610	1430	1930
		1.5	4.36	910	-	780	1220	1200	1180	1000	800	1010	1290	1170	1530
	2.5	1	3.01	1100	-	980	1300	1280	1100	900	1110	1310	1510	1310	1710
		1.5	3.74	990	-	870	1210	1190	1010	810	1020	1220	1420	1220	1620
	3 & 4	1	2.49	1100	-	980	1300	1280	1100	900	1110	1310	1510	1310	1710
		1.5	3.09	1000	-	880	1220	1200	1020	820	1030	1230	1430	1230	1630
UP TO 10M	1 & 2	1	3.89	990	-	870	1210	1190	1010	810	1020	1220	1420	1220	1620
		1.5	4.83	880	-	760	1130	1110	930	730	940	1140	1340	1140	1540
	2.5	1	3.51	1020	-	900	1240	1220	1040	840	1050	1250	1450	1250	1650
		1.5	4.36	910	-	790	1160	1140	960	760	970	1170	1370	1170	1570
	3 & 4	1	3.08	1070	880	1180	1470	1510	1330	1000	800	1010	1290	1170	1530
		1.5	3.82	980	660	940	1360	1380	1620	1130	1120	1310	1540	1380	1840
		2	4.56	890	-	730	1240	1260	1450	1060	940	1140	1400	1270	1670

WARNING
Product Approval
Withdrawn
May 2016

RECOMMENDED ROOFING FASTENERS ONLY FASTENERS NOTED CAN BE USED IN THIS DTCM SHEET.

LOCATION ON CLADDING	SINGLE & LAPPED THICKNESS:	SINGLE THICKNESS:	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	#15 -15 x 55 HH M6.5 - 12 x 55 CYCLONIC ZIPS	#14 - 10 x 50 HH	#14 - 10 x 50 HH	CREST	#12 - 11 x 65 T17 HG/TG HH	#14 - 10 x 65 T17 HH M6 -11 x 65 ROOFZIPS
PAN	#15 -15 x 25 HH	#14 - 10 x 25 HH	#14 - 10 x 25 HH	PAN	#12 - 11 x 25 T17 HH	#14 - 10 x 39 T17 HH

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

- SPANDEK 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. BLUESCOPE 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. BLUESCOPE LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.

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Product Name
SPANDEK - WALLING FOR CYCLONIC REGIONS

Product Description
0.42 & 0.48 BMT G550 AZ150 & COLORBOND AS 1397: 2001 & AS/NZS 2728: 2007

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

Design Criteria
THE FOLLOWING CRITERIA FROM AS/NZS 1170.2:2002 HAVE BEEN USED TO GENERATE THE TABLES.
1. IMPORTANCE LEVEL 2 WITH RETURN PERIOD OF 500 YEARS
2. Vr = 66 m/sec, Fc = 1.05
3. Ms = Mt = Md = 1.0
4. Cpe = -0.65; Cpi = +0.7
5. HEIGHT MULTIPLIERS FROM TABLE 4.1 (B) - AS/NZS 1170.2: 2002

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

- Limitations**
- THE DATA IN THIS SHEET SHALL BE APPLICABLE TO SPANDEK WALLING ONLY. PROFILE DIMENSIONS OF SPANDEK AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH SPANDEK PRODUCT DRAWINGS AS DEVELOPED BY BLUESCOPE LYSAGHT.
 - WALL DESIGN CAPACITY TABLES & MAXIMUM SPAN TABLES HAVE BEEN DEVELOPED FOR TIMBER SUPPORTS & STEEL SUPPORTS 1.5mm BMT OR THICKER. REFER TO APPROPRIATE DTCM SHEET FOR MAXIMUM BATTEN SPACING IN A CASE WHEN STEEL SUPPORTS ARE LESS THAN 1.5 BMT.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH LYSAGHT CYCLONIC AREA DESIGN MANUAL.
 - MAXIMUM SPAN TABLES ARE BASED ON THE FOLLOWING PARAMETERS: MAXIMUM ROOF HEIGHT= 10M
 - MAXIMUM OVERHANG SHALL BE DETAILED ACCORDING TO CURRENT LYSAGHT ROOFING AND WALLING INSTALLATION MANUAL.
 - Pz PRESSURE IN THE TABLES SHALL BE INCREASED ACCORDING TO AS/NZS 1170.2:2002 IN THE CASE OF:
- ELEVATED BUILDING ALLOWING FOR AIR FLOW UNDER
- h/b > 1 & h/d > 1.
 - INCREASE SCREW LENGTH OVER INSULATION TO MAINTAIN A MIN. OF 3 SCREW THREADS PROTRUDING FAR SIDE OF THE SUPPORT.
 - FOR STRENGTH GROUPS OF TIMBER, REFER TO AS 1720.2 : 2006
 - DESIGN TABLES ARE BASED ON TEST RESULTS IN ACCORDANCE TO BCA REQUIREMENTS FOR 'LHL' CYCLONIC TEST FOR METAL WALLS.
 - NO PREBORED HOLES PERMITTED.

Accepted for Inclusion

DTCM ref: m-249-01

Chairman's Signature: [Signature]

Chairman's Name: P. RUSSELL

Date of Approval: 5/5/11 Expiry Date: 5/5/14

New Expiry. 5-5-16
Signature: [Signature]