NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code Volume 2 (Section 3.0.4 Structural resistance of materials in high wind areas) This product has been determined to satisfy NCC Performance Requirement P2.1.1 for structural stability and resistance.

MAXIMUM BATTEN SPACING (mm)

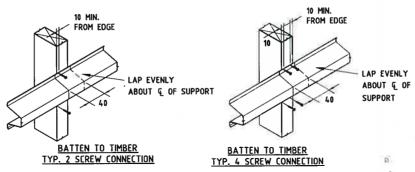
BUILDING HEIGHT	TERRAIN CATEGORY	к	pz (kPa)	TS4075					
				BATTEN SPAN (SUPPORT SPACING, ma					
				≤ 600	900	1200	1500	1800	
	1	1	3.57	1455	1030	675	510	350	
		15	4.43	1175	830	540	410	280	
		2	5.29	980	695	455	345	235	
		3	7.01	740	520	340	260	175	
	2	1	2.9	1795	1265	830	630	430	
		15	3.6	1445	1020	665	505	345	
		2	4.3	1210	855	560	425	290	
		3	5 69	910	645	420	320	215	
	2.5	1	2 65	1960	1385	905	690	470	
UP TO		15	3 29	1580	1115	730	555	375	
SM TO		2	3.93	1320	935	610	465	315	
		3	5 2	1000	705	460	350	240	
	3	1	2 41	2160	1525	1000	755	515	
		1.5	2 99	1740	1230	805	610	415	
		2	3 57	1455	1030	675	510	350	
		3	4.73	1100	775	505	385	760	
	4	1	1.97	2640	1865	1220	925	630	
		15	2.44	2130	1505	985	750	510	
		2	2 92	1780	1260	825	625	425	
		3	3.87	1345	950	620	470	320	
	1	1	4.08	1275	900	590	445	305	
		15	5.07	1025	725	475	360	245	
		2	6.05	860	605	395	300	205	
		3	8.02	645	455	300	225	115	
1 3	2	1	35	14.85	1050	685	520	335	
		15	4.34	1195	845	555	420	285	
		2	5.19	1000	705	460	350	240	
		3	6.87	755	535	350	265	180	
1	2.5	1	2.96	1755	1240	810	615	420	
UP TO		15	3 68	14.10	1000	650	495	335	
		2	4 39	1185	835	545	415	280	
10M		3	5.82	890	630	410	310	210	
	3	1	2.41	2160	1525	1000	755	515	
		15	2.99	1740	1230	805	610	415	
		2	357	1455	1030	675	510	350	
		3	4.73	1100	775	505	385	260	
	4	1	1.97	2640	1865	1220	925	630	
		15	244	2130	1505	985	750	510	
		2	2 92	1780	1260	825	625	425	
		3	3.87	1345	950	620	470	320	

BATTEN SPACING NOTES:

- MAXIMUM SPACING COULD BE GOVERNED BY CAPACITY OF BATTENS AND THEIR CONNECTIONS TO SUPPORTING MEMBERS AS WELL AS PUBLI-OUT CAPACITIES OF FASTENERS CONNECTING LYSAGHT CLADINAGE TO BATTEN
- 2 SPACING OF BATTENS SHALL NOT EXCEED MAXIMUM SPACING OF CLADDING AS GIVEN IN THE RELEVANT DITCH WALLING DRAWINGS.
- 3. FASTENER REQUIREMENTS FOR FIXING BATTEN TO SUPPORTS IN BATTEN SPACING TABLES STEEL SUPPORTS
 - 1.00mm RMT- 2x #14(M6.5)-12X30 CYCLONIC ROOF 7/PS@
 - 1.70~1.9mm BMT: 2x #14-10X25 HEX. HEAD SELF DRILLING SELF TAPPING TEKS®
 - 'BIBLDEY' MAS 12Y30 CYCLONIC PODE 7IPS #14-12Y30 CYCLONIC ROOF 7IPS TIMBER SUPPORTS
 - ALL TIMBER SUPPORTS 2x 'BUILDEX' #17(MS.5)-11x40 BATTENZIPS
- 4. METAL WALLING EASTENER REFER TO THE RELEVANT DICM WALLING DRAWINGS FOR FASTENER FIXING DENTIDEMENTS

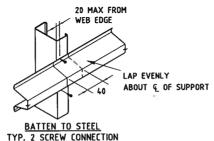
DESIGN CAPACITY TABLE NOTES:

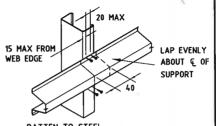
- 1 STEEL SUPPORT FASTENER SPECIFICATION:
- 1.00mm BMT #14(M6.5)-12X30 CYCLONIC ROOF ZIPS®
- 120~19mm BMT #14-10X25 HEX. HEAD SELF DRILLING SELF TAPPING TEKS®
- 'BUILDEX' MA 5-12X30 CYCLONIC ROOF ZIPS = #14-12X30 CYCLONIC ROOF ZIPS
- 7 TIMBER SUPPORT FASTENER SPECIFICATION 'BUILDEX' #12IM5.51-11x40 BATTENZIPS
- 3 DESIGN CAPACITY TARIF CAN BE USED TO DESIGN TS4075 WITH TIMBER SUPPORTS
 - ~ 2 FASTENER CONNECTION SOFTWOOD TIMBER = 1.5mm bmt STEEL SUPPORT, HARDWOOD TIMBER = 1.9mm bmt STEEL SUPPORT.
 - 4 FASTENER CONNECTION HARDWOOD/SOFTWOOD TIMBER SUPPORT 1.9bmt STEEL SUPPORT.
- 4. OUTWARD CAPACITY SHALL BE LIMITED BY THE MINIMUM VALUE BETWEEN MEMBER STRENGTH AND FASTENERS CAPACITY.
- 5. * BATTEN SHALL BE CONTINUOUS OVER AT LEAST 2 SPANS, LAPPED 40mm MINIMUM AT THE SUPPORT LOCATIONS.



DESIGN CAPACITY TABLE - OUTWARD. CONTINUOUS SPAN*

		ULTI	hate uh	IT STATE	ICAD ON	/m)			
SPAN STRENGTH	2 FASTEN SUPPORT				4 FASTENER CAPACITY (kN/m) SUPPORT THICKNESS (mm/bmt)				
	#14(H6.5)-12x30	#14-10x25			#14046.5}-12x30 #14-10×25				
		1.0mm	1.2mm	1.5mm	1.9mm	1.0mm	1.2mm	1.5mm	1.9mm
≤ 600	7.98	5.51	7.19	8.99	11.93	7.75	10.41	13.09	15.69
900	4.72	3.68	4.79	5.99	7.95	5.16	6.94	8.73	10.46
1200	2.41	2.76	3.59	4.49	5.96	3.87	5.21	6.54	7.84
1500	1.83	2.21	2.88	3.60	4.77	3.10	4.16	5.24	6.27
1800	1.25	1.84	2.40	3.00	3.98	2.58	3.47	4.36	5.23





Certifying Engineer

Name: STEPHEN HEALEY

Date: 10 / 08 / 2022

Signature.

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KMIIDI

SURFACE

TS4075 PROFILE

BATTEN TO STEEL TYP. 4 SCREW CONNECTION

NOTES COVERING BASIS OF DTCM SHEET IRELEVANT TEST REPORTS ETC)

- FULL SCALE TOPSPAN 4075,6175.6110 BATTENS TESTING TO BUILDING CODES OF AUSTRALIA'S LOW-HIGH-LOW CYCLONIC TEST'. REGIME. INDEX No. 5.1.2 - REPORT 04. AUGUST 2010. BLUESCOPE LYSAGHT No. 27 STERLING RD, MINCHINBURY 2770 AUSTRALIA.
- WITHDRAWAL CAPACITIES OF TOPSPAN BATTEN TO TIMBER SUPPORT CONNECTIONS USING BUILDEX BATTENZIPS M5.5 11 x 40 FASTENERS', INDEX No. 5.1.2 REPORT 06, DECEMBER 2010, BLUESCOPE LYSAGHT No. 27 STERLING RD, MINCHINBURY 2770
- 'PULLOUT CAPACITIES OF SCREW FASTENED CONNECTIONS THROUGH LYSAGHT TOPSPAN BATTENS TO STEEL PURLINS', INDEX No. 5.4.3 - REPORT 01. NOVEMBER 2010, BLUESCOPE LYSAGHT No. 27 STERLING RD, MINCHINBURY 2770 AUSTRALIA.

Checking Engineer

Name: SANDEEP SHARMA

Registration Number: MIE AUST. 3101165

Date: 18/07/2022

Hust be an Australian registered structural engineer

Must be a registered structural engineer in the Northern Territory

NT Registration Number: 34856ES

Product Name

TOPSPAN 4075 - WALLING BATTEN FOR CYCLONIC REGIONS

Product Description
TOPSPAN 4075 ITS4075 IS MANUFACTURED FROM 0.75mm BMT G550, AM125 TRUECORE STEEL

Manufacturer's Name LYSAGHT

BlueScone Steel Limited A.B.N. 16 000 011 058 Tradina as Lysaaht



Desian Criteria

TOPSPAN 40 COMPLIES WITH AUSTRALIAN STANDARDS FOR THE FOLLOWING REQUIREMENTS:

- A. WIND LOADING AS/NZS 1170.2 2021 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTION WIND LOAD DESIGN CRITERIA
 - 1. IMPORTANCE LEVEL 2 WITH RETURN PERIOD OF 500 YEARS
 - 2 VR = 66 m/car
 - 3. Ms = Mt = Md = 1.0. Mc = 1.05
 - 4 Cne + 40.7/-0.65 Cni = -0.65/+0.7
- Kra 2 Kri 89
- S HEIGHT MUI TIPLIERS FROM TABLE 4.1 OF AS/NZS 1170 22021 STRUCTURAL DESIGN ACTIONS PART ZWIND ACTIONS HAVE BEEN USED TO GENERATE THE TABLES.

HEIGHT (m)	TERRAIN / HEIGHT MULTIPLIER (Mz,cat)								
	1	2	2.5	3	4				
<=5	1.01	0.91	0.87	0.83	0.75				
<=10	1.08	1.00	0.92	0.83	0.75				

- CONCENTRATED LOAD, AS/NZS 1170.1 7002 STRUCTURAL DESIGN ACTIONS PART 1: PERMANENT IMPOSED AND OTHER ACTIONS (INCORPORATING AMENDMENT 1 & 2)
- SERVICEARILITY AS/NZS 1170.0: 2002 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES (INCORPORATING AMENDMENT 1, 2, 3, 4 & 5)
- TIMBED STOENGTH GODINGS AS 1720 2 2004 TIMBER STRUCTURES PART 2: TIMBER PROPERTIES INCODDODATING AMENDMENT No. 1)
- PRODUCT METALLIC COATING AS 1397-2021 CONTINUOUS HOT-DIP METALLIC COATED STEEL SHEET AND STRIP - COATINGS DE ZINC AND ZINC ALLOYED WITH ALUMINIUM AND MAGNESIUM.
- INTERPOLATION OF CAPACITY AND SPACING VALUES IS PERMITTED.
- DESIGN TABLES ARE BASED ON THE TEST RESULTS IN ACCORDANCE WITH NCC 2019 BUILDING CODE OF AUSTRALIA - VOLUME 2 PART 3.10.1 (F) REQUIREMENTS FOR "LHL" CYCLONIC TEST FOR METAL ROOFS AND REFEVANT CLAUSES OF AS/NZS 4600 2018 COLD-FORMED STEEL STRUCTURES.

LIMITATIONS

- RATTEM DESIGN CAPACITY TARLES HAVE BEEN DEVELOPED FOR TIMBER SUPPORTS & HOUNLY LOOK BHT GSSO STEEL SUPPORT.
- 2. ONLY FASTENERS NOTED CAN BE USED IN THIS DTCM SHEET. ALL FASTENERS ARE TO BE CLASS & IN ACCORDANCE TO AS 3566.2-2002 SELF-DRILLING. SCREWS FOR THE BUILDING AND CONSTRUCTION INDUSTRIES PART 2: CORROSION RESISTANCE REQUIREMENTS.
- THE DATA IN THIS SHEET SHALL BE APPLICABLE TO TOPSPAN 40 BATTENS ONLY. PROFILE DIMENSIONS OF TOPSPAN 40 AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH TOPSPAN 40 PRODUCT DRAWINGS AS DEVELOPED BY LYSAGHT.
- STEEL SUPPORT MEMBERS IN THIS DTCM SHEET SHALL BE: 1.0mm BMT G550, 1.2mm BMT G500, 1.5mm & 1.9mm BMT G450.
- INSTALLATION SHALL BE IN ACCORDANCE WITH LYSAGHT CYCLONIC AREA DESIGN MANUAL AND TOPSPAN DESIGN & INSTALLATION GUIDE.
- MAXIMUM BATTEN SPACING TABLES ARE BASED ON MAXIMUM ROOF HEIGHT (h) = 10M.
- INCREASE FASTENER LENGTH IF FIXING OVER INSULATION TO MAINTAIN A MINIMUM OF 3 FASTENERS THREADS PROTRUDING THE FAR SIDE OF THE STEEL SUPPORTING MEMBER
- PZ (PRESSURE) IN THE TABLES SHALL BE INCREASED ACCORDING TO AS/NZS 1170.2:2021 CLAUSE 5.4.1 IN THE CASE OF ELEVATED BUILDING ALLOWING FOR AIR FLOW UNDER: -h/b > 1 - h/d > 1



Accepted for Inclusion in Deemed to Comply Manual

m/360/01 DTCM drawing number:

Chairperson Signature:

Paul Nowland Chairperson Name:

Date of Approval:18/10/2022 Expiry Date: 18/10/2027