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.

MAXIMUM SPAN (mm) TABLES FOR TIMBER & STEEL SUPPORT BMT ≥ 1.5mm

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

BUILDING HEIGHT	TERRAIN CATEGORY	KI	pz (kPa)	0.42 BMT			0.48 BMT		
				SGL.	END	INT.	SGL.	END	INT.
UP TO 5M	1	1	4.57	1520	1230	1450	1650	1350	1600
		1.5	5.86	1360	1080	1200	1450	1150	1370
		2	7.15	1200	940	1030	1310	1030	1180
		3	9.72	1050	700	720	1120	740	750
	2	1	3.44	1770	1470	1760	1850	1600	1920
		1.5	4.40	1560	1270	1480	1680	1380	1650
		2	5.37	1410	1130	1300	1500	1200	1440
		3	7.30	1190	930	1010	1290	1020	1160
	2.5	1	3.49	1760	1460	1750	1840	1590	1900
		1.5	4.02	1640	1350	1580	1750	1450	1740
		2	4.91	1470	1170	1390	1590	1290	1520
		3	6.67	1260	970	1090	1360	1080	1260
	3	1	2.86	1860	1650	2010	1950	1780	2100
		1.5	3.66	1720	1420	1690	1820	1530	1840
		2	4.47	1550	1250	1470	1670	1370	1630
		3	6.07	1330	1060	1170	1420	1130	1340
	4	1	2.33	1940	1840	2100	2030	2010	2100
		1.5	2.99	1840	1600	1950	1920	1740	2090
		2	3.65	1720	1420	1700	1820	1540	1840
		3	4.96	1460	1170	1370	1580	1280	1510
UP TO 10M	1	1	5.20	1440	1150	1330	1530	1230	1470
		1.5	6.67	1260	990	1090	1360	1080	1260
		2	8.13	1140	840	900	1210	940	1010
		3	11.06	970	N/A	N/A	1060	N/A	N/A
	2	1	4.19	1610	1320	1540	1730	1430	1710
		1.5	5.32	1420	1130	1310	1540	1210	1450
		2	6.48	1280	1010	1120	1380	1090	1280
		3	8.82	1100	780	820	1170	870	880
	2.5	1	3.51	1750	1450	1740	1840	1580	1900
		1.5	4.50	1540	1250	1460	1660	1360	1620
		2	5.49	1400	1120	1270	1480	1190	1430
		3	7.46	1180	910	990	1280	1000	1130
	3	1	2.86	1860	1650	2010	1950	1780	2100
		1.5	3.66	1720	1420	1690	1820	1530	1840
		2	4.47	1550	1250	1470	1670	1370	1630
		3	6.07	1330	1060	1170	1420	1130	1340
	4	1	2.33	1940	1840	2100	2030	2010	2100
		1.5	2.99	1840	1600	1950	1920	1740	2090
		2	3.65	1720	1420	1700	1820	1540	1840
		3	4.96	1460	1170	1370	1580	1280	1510

ROOF DESIGN CAPACITY TABLES

ULTIMATE LIMIT STATE PRESSURE (kPa)

0.42 BMT

SPAN (mm)	CREST FASTENED WITH CYCLONIC WASHERS		
	SINGLE	END	INTERNAL
600	N/A	10.80	10.80
900	12.45	7.59	8.14
1200	7.20	4.74	5.91
1500	4.70	3.30	4.31
1800	3.32	2.45	3.33
2100	1.2	1.62	2.68

0.48 BMT

SPAN (mm)	CREST FASTENED WITH CYCLONIC WASHERS		
	SINGLE	END	INTERNAL
600	N/A	10.80	10.80
900	14.31	8.60	8.74
1200	8.25	5.41	7.09
1500	5.39	3.78	5.02
1800	3.80	2.82	3.78
2100	1.92	2.12	2.98

SERVICEABILITY LIMIT STATE PRESSURES CAN BE OBTAINED BY MULTIPLYING THE ULS VALUES IN THE TABLES ABOVE BY 0.46.

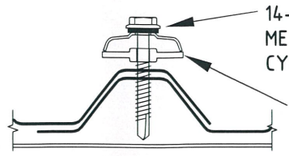
MAXIMUM ROOF SUPPORT SPACING (mm)

SPAN TYPE	0.42 BMT	0.48 BMT
SINGLE	1300	2000
END	1800	2200
INTERNAL	2400	3000

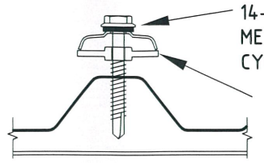
THE MAXIMUM SUPPORT SPACING CONSIDERS LIGHT ROOF TRAFFIC FROM INCIDENTAL MAINTENANCE.

CREST FIXING DETAILS

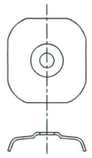
At LAP



At RIB



TIGHTEN SCREW SUCH THAT GASKET IS FIRMLY CLAMPED AND A LEAKPROOF JOINT OBTAINED



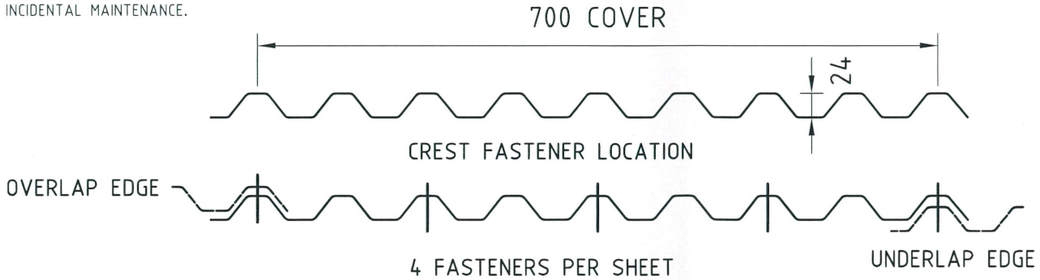
'BUILDEX' SQUARE-LOK CYCLONIC WASHER, CLASS-4 G300, MIN. DIMN: 38x35x1.0mm

GASKET
BLACK E.P.D.M.
40-45 DUROMETER

SPAN TYPE

INSTALLATION NOTES:

- INSTALLATION SHALL BE IN ACCORDANCE WITH FIELDERS ROOFING & WALLING MANUAL.
- INCREASE SCREW LENGTH IF FIXING OVER INSULATION TO MAINTAIN A MIN. OF 3 SCREW THREADS PROTRUDING ON THE FAR SIDE STEEL SUPPORT.
- ALWAYS WALK OVER SUPPORTS IF POSSIBLE. GENERALLY KEEP YOUR WEIGHT DISTRIBUTED EVENLY OVER THE SOLES OF YOUR SHOES.
- NO PRE-BORED HOLES PERMITTED WHEN FASTENING TO SUPPORT.



RECOMMENDED ROOF FASTENERS FOR STEEL SUPPORTS

SCREW NOTATION CODE:	STEEL THICKNESS	CLASS 4 : SELF DRILLING & TAPPING HEX HEAD SCREW WITH EDPM SEAL
HH DENOTED - HEX. HEAD T17 " - TYPE 17 HG " - HIGH GRIP TG " - TOP GRIP	SINGLE: 1.0mm UP TO 3.0mm bmt	#14 - 10 x 50 HH (CREST FIX)
	SINGLE/LAPPED: 0.75mm UP TO 1.0mm bmt (total 2.0mm)	#14 (M6.5) - 12 x 55 CYCLONIC ZIP SCREW (CREST FIX)
	LAPPED: 1.0mm UP TO 1.9mm bmt (total 3.8mm)	#14 - 10 x 50 HH (CREST FIX)

RECOMMENDED ROOF FASTENERS FOR TIMBER SUPPORTS

STRENGTH GROUP	CLASS 4 : SELF DRILLING HEX HEAD SCREW WITH EDPM SEAL
HARDWOOD J1-J3	#12 - 11 x 65 T17 HG/TG HH (CREST FIX)
SOFTWOOD J4	M6 - 11 x 65 ROOFZIPS (CREST FIX) #14 - 10 x 65 T17 HH (CREST FIX)

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

1. CYCLONIC TESTS OF SPANFORM ROOF SHEETING, REPORT REF. No. C071101, 22 DEC. 2008. TESTING CONDUCTED BY ENGTEST, UNIVERSITY OF ADELAIDE. TEST REPORT PREPARED FOR TREVOR JOHN & ASSOCIATES PTY LTD.
2. 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.
3. 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.
4. CYCLIC PULLOUT CAPACITIES OF BUILDEX M6.5-12X55 CYCLONIC ZIP SCREWS. REPORT: 5.1.3 - REPORT 05. JUNE 2010. BLUESCOPE LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.

**Checking Engineers Certification

Name: KAVITHA MYSORE
Rego. Number: MIE AUST. 2089547
Date: 10/07/2017
Signature: M.K.Kavitha

**registered as a structural engineer in Australia

**Certifying Engineers Certification

Name: STEPHEN HEALEY
NT Rego. Number: 34856ES
Date: 18/07/2017
Signature:

**registered as a structural engineer in Northern Territory

Product Name

SPANFORM - ROOFING FOR CYCLONIC REGIONS - SHEET 1 OF 2

Product Description

SPANFORM ROOFING IS MANUFACTURED FROM 0.42mm & 0.48mm BMT G550, AM125 ZINCALUME, AM100 COLORBOND AND AM150 COLORBOND ULTRA. Z600 HERITAGE GALVANISED MATERIAL IS AVAILABLE IN SOME LOCATIONS.

Manufacturer's Name

FIELDERS AUSTRALIA PTY LTD
15 RAILWAY TERRACE, MILE END SOUTH
S.A. 5031

DESIGN CRITERIA

SPANFORM COMPLIES WITH AUSTRALIAN STANDARDS FOR THE FOLLOWING REQUIREMENTS:

A. WIND LOADING: AS/NZS 1170.2: 2011 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTION (INCORPORATING AMENDMENT No. 1, 2 & 3)

WIND LOAD DESIGN CRITERIA:

1. IMPORTANCE LEVEL 2 WITH RETURN PERIOD OF 500 YEARS
2. WIND REGION 'C', VR = 66xFc = 66x1.05 = 69.3 m/sec
3. Ms = Mt = Md = 1.0
4. Cpe = -0.9; Cpi = +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

B. CONCENTRATED LOAD AT MAXIMUM SPAN: AS 4040.0-1992: METHODS OF TESTING SHEET ROOF AND WALL CLADDING - INTRODUCTION, LIST OF METHODS AND GENERAL REQUIREMENTS; AS 4040.1-1992: METHODS OF TESTING SHEET ROOF AND WALL CLADDING - RESISTANCE TO CONCENTRATED LOADS

C. SERVICEABILITY: AS/NZS 1170.0: 2002 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES (INCORPORATING AMENDMENT 1, 2, 3, 4 & 5)

D. TIMBER STRENGTH GROUPS: AS 1720.2: 2006 TIMBER STRUCTURES PART 2: TIMBER PROPERTIES (INCORPORATING AMENDMENT No. 1).

E. 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

F. INTERPOLATION OF CAPACITY AND SPACING VALUES IS PERMITTED.

G. DESIGN TABLES ARE BASED ON THE TEST RESULTS IN ACCORDANCE WITH NCC 2016 BUILDING CODE OF AUSTRALIA - VOLUME 2 PART 3.10.1 (F) REQUIREMENTS FOR "LHL" CYCLONIC TEST FOR METAL ROOFS AND RELEVANT CLAUSES OF AS/NZS 4600: 2005 COLD-FORMED STEEL STRUCTURES.

LIMITATIONS

1. **ONLY FASTENERS NOTED ON THIS DTCS CAN BE USED FOR FIXING. ALL FASTENERS ARE TO BE CLASS 4 IN ACCORDANCE TO AS 3566.2-2002 SELF-DRILLING SCREWS FOR THE BUILDING AND CONSTRUCTION INDUSTRIES PART 2: CORROSION RESISTANCE REQUIREMENTS.**
2. THE DATA IN THIS SHEET SHALL BE APPLICABLE TO SPANFORM ROOFING ONLY. PROFILE DIMENSIONS OF SPANFORM AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH SPANFORM PRODUCT DRAWINGS AS DEVELOPED BY FIELDERS.
3. MAXIMUM SPANFORM ROOF LENGTHS AS RELATED TO RAINWATER CARRYING CAPACITY & ROOF PITCH SHALL BE DETERMINED USING THE FIELDERS ROOFING & WALLING MANUAL.
4. MAXIMUM OVERHANG SHALL BE DETAILED ACCORDING TO THE FIELDERS ROOFING & WALLING MANUAL.
5. MAXIMUM BATTEN SPACING TABLES ARE BASED ON MAXIMUM ROOF HEIGHT (h) = 10M.
6. Pz (PRESSURE) IN THE TABLES SHALL BE INCREASED ACCORDING TO 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.

Accepted for Inclusion

DTCM ref: M/824/01

Chairman's Signature: STEVEN J EHRLICH

Chairman's Name:

Date of Approval: 03/8/17 Expiry Date: 03/8/2022

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.

MAXIMUM BATTEN SPACING TABLES FOR 0.75mm & 1.0mm BMT STEEL BATTENS (mm)

BUILDING HEIGHT	TERRAIN CATEGORY	KI	pz (kPa)	TS4075					TS6175						TS6110					
				BATTEN SPAN (SUPPORT SPACING), mm					BATTEN SPAN (SUPPORT SPACING), mm						BATTEN SPAN (SUPPORT SPACING), mm					
				≤ 600	900	1200	1500	1800	≤1500	2000	2500	3000	3500	4000	≤1500	2000	2500	3000	3500	4000
UP TO 5M	1	1	4.57	1135	805	525	400	270	785	585	320	245	205	N/A	785	585	470	360	260	205
		1.5	5.86	885	625	410	310	210	610	455	250	N/A	N/A	N/A	610	455	365	280	200	N/A
		2	7.15	725	510	335	255	N/A	500	370	205	N/A	N/A	N/A	500	375	300	230	N/A	N/A
		3	9.72	535	375	245	N/A	N/A	365	275	N/A	N/A	N/A	N/A	365	275	220	N/A	N/A	N/A
	2	1	3.44	1510	1065	700	530	360	1040	775	430	325	270	215	1040	780	625	480	345	270
		1.5	4.40	1180	835	545	415	280	815	605	335	255	210	N/A	815	610	490	375	270	210
		2	5.37	965	685	445	340	230	665	495	275	210	N/A	N/A	665	500	400	305	220	N/A
		3	7.30	710	500	330	250	N/A	490	365	200	N/A	N/A	N/A	490	365	295	225	N/A	N/A
	2.5	1	3.49	1490	1050	690	520	355	1025	765	420	320	265	210	1025	770	615	475	340	265
		1.5	4.02	1295	915	595	455	310	890	665	365	280	230	N/A	890	665	535	410	295	230
		2	4.91	1060	745	490	370	250	730	545	300	230	N/A	N/A	730	545	435	335	240	N/A
		3	6.67	780	550	360	270	N/A	535	400	220	N/A	N/A	N/A	535	400	320	245	N/A	N/A
	3	1	2.86	1820	1285	840	635	435	1255	935	515	395	325	255	1255	940	755	580	415	325
		1.5	3.66	1420	1005	655	500	340	980	730	400	305	255	200	980	730	590	450	325	255
		2	4.47	1160	820	535	405	275	800	595	330	250	210	N/A	800	600	480	370	265	210
		3	6.07	855	605	395	300	205	590	440	240	N/A	N/A	N/A	590	440	355	270	N/A	N/A
	4	1	2.33	2230	1575	1030	785	535	1540	1150	635	480	400	315	1540	1150	925	710	515	400
		1.5	2.99	1740	1230	805	610	415	1200	895	490	375	310	245	1200	895	720	555	400	310
		2	3.65	1425	1005	660	500	340	980	730	405	305	255	200	980	735	590	450	325	255
		3	4.96	1045	740	485	365	250	720	540	295	225	N/A	N/A	720	540	435	330	240	N/A
UP TO 10M	1	1	5.20	1000	705	460	350	240	690	515	280	215	N/A	N/A	690	515	415	315	230	N/A
		1.5	6.67	780	550	360	270	N/A	535	400	220	N/A	N/A	N/A	535	400	320	245	N/A	N/A
		2	8.13	640	450	295	225	N/A	440	325	N/A	N/A	N/A	N/A	440	330	265	200	N/A	N/A
		3	11.06	470	330	215	N/A	N/A	320	240	N/A	N/A	N/A	N/A	320	240	N/A	N/A	N/A	N/A
	2	1	4.15	1250	885	580	440	300	865	645	355	270	225	N/A	865	645	520	400	285	225
		1.5	5.32	975	690	450	340	230	670	500	275	210	N/A	N/A	670	505	405	310	225	N/A
		2	6.48	800	565	370	280	N/A	550	410	225	N/A	N/A	N/A	550	415	330	255	N/A	N/A
		3	8.82	590	415	270	205	N/A	405	300	N/A	N/A	N/A	N/A	405	300	240	N/A	N/A	N/A
	2.5	1	3.51	1480	1045	685	520	355	1020	760	420	320	265	210	1020	765	615	470	340	265
		1.5	4.50	1155	815	535	405	275	795	595	325	250	205	N/A	795	595	480	365	265	205
		2	5.49	945	670	435	330	225	650	485	265	205	N/A	N/A	650	485	390	300	215	N/A
		3	7.46	695	490	320	245	N/A	480	355	N/A	N/A	N/A	N/A	480	360	285	220	N/A	N/A
	3	1	2.86	1820	1285	840	635	435	1255	935	515	395	325	255	1255	940	755	580	415	325
		1.5	3.66	1420	1005	655	500	340	980	730	400	305	255	200	980	730	590	450	325	255
		2	4.47	1160	820	535	405	275	800	595	330	250	210	N/A	800	600	480	370	265	210
		3	6.07	855	605	395	300	205	590	440	240	N/A	N/A	N/A	590	440	355	270	N/A	N/A
	4	1	2.33	2230	1575	1030	785	535	1540	1150	635	480	400	315	1540	1150	925	710	515	400
		1.5	2.99	1740	1230	805	610	415	1200	895	490	375	310	245	1200	895	720	555	400	310
		2	3.65	1425	1005	660	500	340	980	730	405	305	255	200	980	735	590	450	325	255
		3	4.96	1045	740	485	365	250	720	540	295	225	N/A	N/A	720	540	435	330	240	N/A

BATTEN SPACING TABLE NOTES:

1. MAXIMUM SPACING SHALL BE GOVERNED BY CAPACITY OF BATTENS AND THEIR CONNECTIONS TO SUPPORTING RAFTERS/TRUSSES AS WELL AS PULL-OUT CAPACITIES OF FASTENERS CONNECTING FIELDERS CLADDINGS TO BATTEN.
2. SPACING OF BATTENS SHALL NOT EXCEED BOTH MAXIMUM SPAN AND MAXIMUM SUPPORT SPACING OF CLADDING AS GIVEN IN SHEET 1.
3. FASTENER REQUIREMENTS FOR FIXING **TS4075** TO SUPPORTS IN BATTEN SPACING TABLE:
   STEEL SUPPORTS:
   - 1.00mm BMT: 2x #14(M6.5)-12X30 CYCLONIC ROOF ZIPS®
   - 1.20~1.9mm BMT: 2x #14-10X25 HEX. HEAD SELF DRILLING SELF TAPPING TEKS®
   - 'BUILDEX' M6.5-12X30 CYCLONIC ROOF ZIPS = #14-12X30 CYCLONIC ROOF ZIPS

   TIMBER SUPPORTS:
   - 2x 'BUILDEX' #12(M5.5)-11x40 BATTENZIPS
4. FASTENER REQUIREMENTS FOR FIXING **TS6175** OR **TS6110** TO SUPPORTS IN BATTEN SPACING TABLE:
   - STEEL SUPPORT 1.20~1.9mm BMT: 4x #14-10X25 HEX. HEAD SELF DRILLING SELF TAPPING TEKS®
   - TIMBER SUPPORTS: 4x 'BUILDEX' #12(M5.5)-11x40 BATTENZIPS

DESIGN CAPACITY TABLE NOTES:

1. STEEL SUPPORT FASTENER SPECIFICATION:
   - 1.00mm BMT: #14(M6.5)-12X30 CYCLONIC ROOF ZIPS®
   - 1.20~1.9mm BMT: #14-10X25 HEX. HEAD SELF DRILLING SELF TAPPING TEKS®
   - 'BUILDEX' M6.5-12X30 CYCLONIC ROOF ZIPS = #14-12X30 CYCLONIC ROOF ZIPS
2. TIMBER SUPPORT FASTENER SPECIFICATION: 'BUILDEX' #12(M5.5)-11x40 BATTENZIPS
3. DESIGN CAPACITY TABLE CAN BE USED TO DESIGN TS4075, TS6175 & TS6110 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. **TS4075** BATTEN SHALL BE CONTINUOUS OVER AT LEAST 2 SPANS, LAPPED 40mm MINIMUM AT THE SUPPORT (TRUSS OR RAFTER) LOCATIONS.
6. **TS6175** AND **TS6110** BATTENS SHALL BE CONTINUOUS OVER AT LEAST 2 SPANS, STRUCTURAL LAPPING DISTANCE AT SUPPORT IS MINIMUM 15% OF THE LONGER SPAN. NON STRUCTURAL LAPPING DISTANCE IS 40mm MINIMUM AT THE SUPPORT (TRUSS OR RAFTER) LOCATIONS.

TS6175, TS6110 DESIGN CAPACITY TABLE - OUTWARD, CONTINUOUS/LAPPED SPAN

ULTIMATE LIMIT STATE LOAD (kN/m)

SPAN (mm)	MEMBER STRENGTH (kN/m)		2 FASTENER CAPACITY (kN/m) SUPPORT THICKNESS (mm/bmt)				4 FASTENER CAPACITY (kN/m) SUPPORT THICKNESS (mm/bmt)			
	TS6175	TS6110	#14(M6.5)-12x30	#14-10x25			#14(M6.5)-12x30	#14-10x25		
			1.0mm	1.2mm	1.5mm	1.9mm	1.0mm	1.2mm	1.5mm	1.9mm
≤1500	4.31	5.88	1.90	2.48	3.10	4.12	2.67	3.59	4.52	5.41
2000	2.68	2.91	1.43	1.86	2.33	3.09	2.01	2.69	3.39	4.06
2500	1.48	2.17	1.14	1.49	1.86	2.47	1.60	2.16	2.71	3.25
3000	1.13	1.66	0.95	1.24	1.55	2.06	1.34	1.80	2.26	2.71
3500	0.94	1.20	0.82	1.06	1.33	1.76	1.15	1.54	1.94	2.32
4000	0.74	0.94	0.71	0.93	1.16	1.54	1.00	1.35	1.69	2.03

TS4075 DESIGN CAPACITY TABLE - OUTWARD, CONTINUOUS SPAN

ULTIMATE LIMIT STATE LOAD (kN/m)

SPAN (mm)	MEMBER STRENGTH kN/m	2 FASTENER CAPACITY (kN/m) SUPPORT THICKNESS (mm/bmt)				4 FASTENER CAPACITY (kN/m) SUPPORT THICKNESS (mm/bmt)			
	TS4075	#14(M6.5)-12x30	#14-10x25			#14(M6.5)-12x30	#14-10x25		
		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

NOTES:

REFER TO "TOPSPAN 61 ROOFING BATTENS FOR CYCLONIC REGIONS" & "TOPSPAN 4075 ROOFING BATTENS FOR CYCLONIC REGION FOR BATTEN" DTCM DRAWINGS FOR DIMENSIONS, CONNECTIONS DETAILS AND TEST REPORTS.

**Checking Engineers Certification

Name: KAVITHA MYSORE

Rego. Number: MIE AUST. 2089547

Date: 10/07/2017

Signature: M.K.kavitha

**registered as a structural engineer in Australia

**Certifying Engineers Certification

Name: STEPHEN HEALEY

NT Rego. Number: 34856ES

Date: 18/07/2017

Signature:

**registered as a structural engineer in Northern Territory

Product Name

SPANFORM - ROOFING FOR CYCLONIC REGIONS - SHEET 2 OF 2

Product Description

SPANFORM ROOFING IS MANUFACTURED FROM 0.42mm & 0.48mm BMT G550, AM125 ZINCALUME, AM100 COLORBOND AND AM150 COLORBOND ULTRA. Z600 HERITAGE GALVANISED MATERIAL IS AVAILABLE IN SOME LOCATIONS.

Manufacturer's Name

FIELDERS AUSTRALIA PTY LTD

15 RAILWAY TERRACE, MILE END SOUTH

S.A. 5031

DESIGN CRITERIA

SPANFORM COMPLIES WITH AUSTRALIAN STANDARDS FOR THE FOLLOWING REQUIREMENTS:

A. WIND LOADING: AS/NZS 1170.2: 2011 STRUCTURAL DESIGN ACTIONS PART 2: WIND ACTION (INCORPORATING AMENDMENT No. 1, 2 & 3)

WIND LOAD DESIGN CRITERIA:

1. IMPORTANCE LEVEL 2 WITH RETURN PERIOD OF 500 YEARS
2. WIND REGION 'C', VR = 66xFc = 66x1.05 = 69.3 m/sec
3. Ms = Mt = Md = 1.0
4. Cpe = -0.9; Cpi = +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

B. CONCENTRATED LOAD AT MAXIMUM SPAN: AS 4040.0-1992: METHODS OF TESTING SHEET ROOF AND WALL CLADDING - INTRODUCTION, LIST OF METHODS AND GENERAL REQUIREMENTS; AS 4040.1-1992: METHODS OF TESTING SHEET ROOF AND WALL CLADDING - RESISTANCE TO CONCENTRATED LOADS

C. SERVICEABILITY: AS/NZS 1170.0: 2002 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES (INCORPORATING AMENDMENT 1, 2, 3, 4 & 5)

D. TIMBER STRENGTH GROUPS: AS 1720.2: 2006 TIMBER STRUCTURES PART 2: TIMBER PROPERTIES (INCORPORATING AMENDMENT No. 1).

E. 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

F. INTERPOLATION OF CAPACITY AND SPACING VALUES IS PERMITTED.

G. DESIGN TABLES ARE BASED ON THE TEST RESULTS IN ACCORDANCE WITH NCC 2016 BUILDING CODE OF AUSTRALIA - VOLUME 2 PART 3.10.1 (F) REQUIREMENTS FOR "LHL" CYCLONIC TEST FOR METAL ROOFS AND RELEVANT CLAUSES OF AS/NZS 4600: 2005 COLD-FORMED STEEL STRUCTURES.

LIMITATIONS

1. **ONLY FASTENERS NOTED ON THIS DTCS CAN BE USED FOR FIXING. ALL FASTENERS ARE TO BE CLASS 4 IN ACCORDANCE TO AS 3566.2-2002 SELF-DRILLING SCREWS FOR THE BUILDING AND CONSTRUCTION INDUSTRIES PART 2: CORROSION RESISTANCE REQUIREMENTS.**
2. THE DATA IN THIS SHEET SHALL BE APPLICABLE TO SPANFORM ROOFING ONLY. PROFILE DIMENSIONS OF SPANFORM AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH SPANFORM PRODUCT DRAWINGS AS DEVELOPED BY FIELDERS.
3. MAXIMUM SPANFORM ROOF LENGTHS AS RELATED TO RAINWATER CARRYING CAPACITY & ROOF PITCH SHALL BE DETERMINED USING THE FIELDERS ROOFING & WALLING MANUAL.
4. MAXIMUM OVERHANG SHALL BE DETAILED ACCORDING TO THE FIELDERS ROOFING & WALLING MANUAL.
5. MAXIMUM BATTEN SPACING TABLES ARE BASED ON MAXIMUM ROOF HEIGHT (h) = 10M.
6. Pz (PRESSURE) IN THE TABLES SHALL BE INCREASED ACCORDING TO 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.

Accepted for Inclusion

DTCM ref: M/824/02

Chairman's Signature:

Chairman's Name: STEVEN J EHRLICH

Date of Approval: 03/8/17 Expiry Date: 03/8/2022