

CREST FASTENED WITH CYCLONIC WASHERS

CREST FIXING WITH CREST FIXING WITH CYCLONIC WASHER AT LAP Manufacturer's Name CYCLONIC WASHER #10-16x16 HEX. HEAD SELF DRILLING SCREW WITH EPDM SEAL CLASS 4

CLASS-4 G300

'BUILDEX'.

38 X 34.5 X 1.0mm

VALIEX FASTENED WITHOUT CYCLONIC WASHERS

CUSTOM BLUE ORB PROFILE

(FINAL POSITION)

CYCLONIC WASHERS

CYCLONIC WASHER

VALLEY FIXING WITHOUT

VALLEY FASTENED WITHOUT

END

1750

1490

1330

2080

1680

1470

2100

2020

1690

1630

1400

1220

1750

1490

1330

2030

1650

CREST FIXING WITHOUT CYCLONIC WASHER AT LAI

(FINAL POSITION)

INTERNAL

2100

1990

1850

2100

2090

1970

2100

2100

2100

2060

1910

1760

2100

1990

1850

2100

2080

CREST FASTENED WITH

CYCLONIC WASHERS

2100

1770

1510

2100

2090

1740

2100

2100

2100

2010

1630

1390

2100

1770

1510

2100

2040

0.60 BMT

1750

1590

1440

1850

1710

1570

1970

1840

1720

1680

1500

1340

1750

1590

1440

.1840

1690

INTERNAL SINGLE | END

1860

1800

1260

1890

1840

1800

1930

1890

1850

1830

1530

1130

1860

1800

1260

1890

1840

MAXIMUM SPAN TABLES

SINGLE

1180

1090

1010

1390

1160

1080

1670

1350

1160

1140

1050

950

1180

1090

1010

1350

1150

OVERLAP EDGE

WALL DESIGN CAPACITY TABLES STOM BLUE ORB. 0.50 BMT - ULTIMATE LIMIT STATE PRESSURE (kPa)

UNDERLAP EDGE

_									
	SPAN	VALLEY FAST NED WITHOUT CYCLONIC MALHERS				CREST FASTENED WITH			
L	mm	SI GLT	END	INTERNAL	Si	MGLE	END	INTERNAL	
L	600	10.8L	10.80	10.80		080	10.80	10.80	
L	900	6.30	8.04	8.62	V.	7.45	8.52	9.82	
	1200	3.38	5.88	0.44	!	5.28	6.68	8.62	
	1500	2.81	4.32	i PJ	-	4.88	5.27	7.20	
L	1800	2.25	3. ² 0	3.28	,	4.47	4.28	5.56	
Γ	2100		3.00	1.90	_		3.73	3.70	

SCREW NOTATION CODE: HH DENOTED - HEX. HEAD T17 - TYPE 17

> HG - HIGH GRIP - TOP GRIP

TG RECOMMENDED FASTENERS ONLY FASTENERS NOTED CAN BE USED WITH THIS DTCM SHEET.

4.56 1450 1730 2 1070 1550 1710 1960 STEEL SUPPORTS - CLASS 4: SELF DRILLING & SELF TAPPING HEX HEAD SCREW WITH FROM SEAL TIMBED CHODADTC FLACE A . SELE DOLLING HEY HEAD SCORN WITH FORM SEAL

2.5

3 & 4

BUILDING

UP TO

UP TO

HEIGHT

TERRAIN

CATEGORY

1 & 2

2.5

pz (kPa)

3.51

5.20

3.01

4.46

2.49

3.69

3.89

4.83

5.76

3.51

4.36

5.20

3.08

3.82

1.5 3.74

1.5 4.36

2

2

1.5 3.09

1

1.5

2

1

1.5

1.5

41666 44	TIPIDER SOFFORTS - CLASS 4: SELF DRILLING NEX NEXO SEREN WITH CPUN SEAL						
1	SINGLE & LAPPED THICKNESS: 0.75mm UP TO 1.0mm bmt. (tatal 2.0mm)		LAPPED THICKNESS: 1.0mm UP TO 1.9mm bmt. (fotal 3.8mm)	LOCATION ON CLADDING	HARDWOOD (STRENGTH GROUP J1-J3)	SOFTWOOD (STRENGTH GROUP J4)	
CREST	#15 - 15 x 47 HH M6.5 - 12 x 55 CYCLONIC ZIP	#14 ~ 10 x 42 HH	14 - 10 × 42 HH	CREST	#12 - 11 x 50 T17 HH KG/TG	#14 - 10 x 50 T17 HH M6 -11 x 50 R00FZIPS	
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)

1. CUSTOM BLUE ORB 0.6 BMT CYCLONIC ROOF & WALL PRESSURE TESTS. PROJECT #501855. JUNE 2008. BLUESCOPE STEEL LYSAGHT No 7 FERNGROVE PLACE, CHESTER HILL 2162 NSW - AUSTRALIA.

2. STATIC & CYCLIC FATIGUE WITHDRAWAL CAPACITIES OF SELF DRILLING SCREWS IN TIMBER SUPPORTS. REPORT: 5.1.2-REPORTOS. DECEMBER 2010. BLUESCOPE LYSAGHT No 27 STERLING RD, MINCHINBURY 2770 NSW - AUSTRALIA.

3. 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.

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.

**Design Engineers Certification

Name: Kavitha Mysore

Registration Number: MIE AUST, 2089547

Date: 10/3/2011

Signature: M. Ic. Icawi tha

**Certifying Engineers Certification

Name: Alexander Filonov NT Registration Number: 24332ES

Product Name

CUSTOM BLUE ORB: WALLING - FOR CYCLONIC REGIONS

Product Description

0.60 BMT G300 Z600 & COLORBOND

AS 1397: 2001 & AS/NZS 2728: 2007

BLUESCOPE LYSAGHT

BlueScope Steel Limited A.B.N. 16 000 011 058 Trading as BlueScope Lysaght



Desian 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(8) AS/NZS 1170.2: 2002

HEIGHT (m)	TERRAIN / I	HEIGHT MULTI	PLIER (Mz,cat)	
וווו וחטוםח	1 & 2	2.5	3 & 4	
<=5	0.95	0.88	0.80	
<=10	1.00	0.95	0.89	

Limitations

- 1. THE DATA IN THIS SHEET SHALL BE APPLICABLE TO CUSTOM BLUE ORB WALLING ONLY. PROFILE DIMENSIONS OF CUSTOM BLUE ORB AS SUPPLIED FOR INSTALLATION SHALL COMPLY WITH CUSTOM BLUE ORB PRODUCT DRAWINGS AS DEVELOPED BY BLUESCOPE LYSAGHT.
- 2. 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 MAXIMIUM BATTEN SPACING IN A CASE WHEN STEEL SUPPORTS ARE LESS THAN 1.5 BMT.
- 3. INSTALLATION SHALL BE IN ACCORDANCE WITH LYSAGHT CYCLONIC AREA DESIGN MANUAL.
- 4. MAXIMUM SPAN TABLES ARE BASED ON THE FOLLOWING PARAMETERS: MAXIMUM ROOF HEIGHT= 10M
- 5. MAXIMUM OVERHANG SHALL BE DETAILED ACCORDING TO CURRENT LYSAGHT ROOFING AND WALLING INSTALLATION MANUAL.
- 6. 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.
- 7. INCREASE SCREW LENGTH OVER INSULATION TO MAINTAIN A MIN. OF 3 SCREW THREADS PROTRUDING FAR SIDE OF THE SUPPORT.
- 8. FOR STRENGTH GROUPS OF TIMBER, REFER TO AS 1720.2: 2006
- 9. DESIGN TABLES ARE BASED ON TEST RESULTS IN ACCORDANCE TO BCA REQUIREMENTS FOR 'LHL' CYCLONIC TEST FOR METAL WALLS.
- 10. NO PREBORED HOLES PERMITTED.

Accepted for Inclusion

DTCM ref:

m-248-01

D∕Chairman's Signature:

d>Chairman's Name:

P. RUSSELL

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