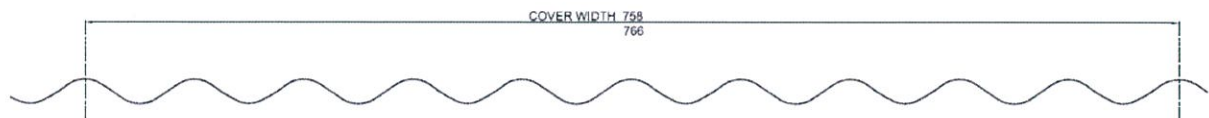


CUSTOM BLUE ORB

TEST REPORT SUMMARY

PIC/RW/R/296/08/0

Profile:



Custom Blue Orb profile

1. Limit State Load capacity for Custom Blue Orb is provided for 0.60 & 0.80 BMT (G300).
2. Custom Blue Orb is fastened using 3 or 5 screws per sheet to the support using #12-14x35 wafer head screws with washer (or higher specification).
3. The capacity tables are based on testing carried out at Lysaght's NATA registered testing laboratory by using the direct pressure testing rig.
4. Testing was carried out in accordance to the following Australian Standards:
 - a. AS 1562-1992 – Design and Installation of sheet roof and wall cladding-Part 1: Metal
 - b. AS 4040.0-1992 – Methods for testing sheet roof and wall cladding-Part 0: Introduction, list of methods and general requirements
 - c. AS 4040.1-1992 – Methods for testing sheet roof and wall cladding - Method 1: Resistance to concentrated loads
 - d. AS 4040.2-1992 – Methods for testing sheet roof and wall cladding - Method 2: Resistance to wind pressure for non-cyclone regions



Date of first issue: 24 August 2018

Revision: 0

CUSTOM BLUE ORB

TEST REPORT SUMMARY

PIC/RW/R/296/08/0

LYSAGHT CUSTOM BLUE ORB®: Limit State wind pressure capacities (kPa)

Span type	Fasteners per sheet per support	Span (mm)											
		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
Base metal thickness 0.6 mm													
SINGLE	3	Serviceability	3.32	2.58	1.94	1.48	1.08	0.73	0.39				
		Strength	12.00	10.55	7.25	5.85	5.05	4.55	4.30				
	5	Serviceability	10.50	6.03	2.62	1.30	0.62	0.36	0.32				
		Strength	12.00	12.00	12.00	10.00	8.35	7.25	6.35				
END	3	Serviceability	2.85	2.41	1.99	1.62	1.29	1.01	0.78	0.58	0.41	0.26	
		Strength	12.00	12.00	9.10	6.75	5.25	3.60	4.05	3.60	3.15	2.70	
	5	Serviceability	11.00	7.72	4.80	2.62	1.40	0.89	0.73	0.58	0.41	0.23	
		Strength	12.00	12.00	12.00	9.05	7.35	6.55	6.20	5.70	5.05	4.30	
INTERNAL	3	Serviceability	3.05	2.55	2.11	1.75	1.48	1.25	1.05	0.84	0.63	0.42	0.21
		Strength	12.00	12.00	9.15	6.80	5.65	5.15	4.95	4.55	4.00	3.30	2.60
	5	Serviceability	10.94	7.43	4.51	2.59	1.55	1.07	0.88	0.72	0.54	0.37	0.19
		Strength	12.00	12.00	12.00	9.95	8.30	7.70	7.45	7.00	6.25	5.35	4.40
Base metal thickness 0.8 mm													
SINGLE	3	Serviceability	5.26	3.92	2.80	2.08	1.49	0.99	0.53				
		Strength	12.00	12.00	9.15	7.45	6.30	5.50	4.95				
	5	Serviceability	12.00	8.63	3.44	1.54	0.64	0.40	0.50				
		Strength	12.00	12.00	12.00	11.50	9.70	8.55	7.70				
END	3	Serviceability	5.91	4.61	3.43	2.46	1.77	1.31	1.00	0.75	0.54	0.36	
		Strength	12.00	12.00	11.50	8.55	6.80	6.00	5.45	4.80	4.00	3.15	
	5	Serviceability	12.00	9.67	5.86	3.06	1.60	1.10	1.01	0.86	0.62	0.33	
		Strength	12.00	12.00	12.00	12.00	9.85	8.80	8.25	7.00	6.20	4.85	
INTERNAL	3	Serviceability	5.49	4.53	3.66	2.94	2.38	1.93	1.56	1.24	0.96	0.70	0.46
		Strength	12.00	12.00	12.00	9.00	7.25	6.35	5.85	5.25	4.65	3.95	3.20
	5	Serviceability	12.00	12.00	6.86	3.23	1.61	1.45	1.37	1.36	1.15	0.80	0.40
		Strength	12.00	12.00	12.00	12.00	12.00	10.45	9.05	7.40	6.30	5.65	5.20

1. Strength limit state pressure capacities have been determined by testing the cladding to failure. A capacity reduction factor of 0.9 is applied to derive the design capacity in the table above.
2. Serviceability limit state pressure capacities are based on a deflection limit of (span/120) + (maximum fastener pitch/30).



CUSTOM BLUE ORB TEST REPORT SUMMARY

PIC/RW/R/296/08/0

Maximum support spacings (mm)

Type of span BMT (mm)	0.60	0.80
Roofs including bullnosed roofs		
Single span	1600	1800
End span	1600	1800
Internal span	1800	2600
Unstiffened eaves overhang	200	400
Stiffened eaves overhang	300	600
Walls		
Single span	2400	2400
End span	3000	3200
Internal span	3300	3600
Overhang	200	400

1. The maximum recommended support spacings are based on testing.
2. Roof spans consider both resistance to wind pressure and light roof traffic (traffic arising from incidental maintenance).

**note: further details refer to Lysaght Custom Blue Orb Brochure.*

Prepared by,

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