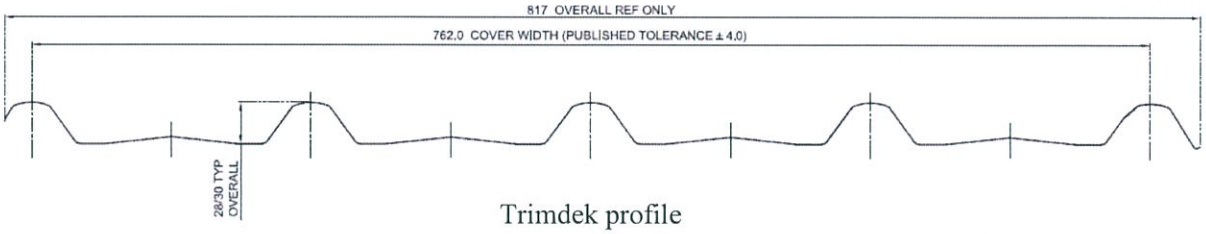
TRIMDEK

TEST REPORT SUMMARY

PIC/RW/R/296/06/0

Profile:



Trimdek profile

1. Limit State Load capacity for Trimdek is provided for 0.42 & 0.48 BMT (G550).
2. Trimdek is fastened using 4 screws per sheet to the support at every rib using #12-14x55 wafer head self-drilling 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

LYSAGHT trimdek®: Limit State wind pressure capacities (kPa)

Span Type	Limit State	Span (mm) 600	900	1200	1500	1800	2100	2400	2700	3000
Base metal thickness 0.42mm										
SINGLE	Serviceability	4.98	3.91	2.83	1.87	1.16	0.75	0.53		
	Strength	10.25	8.35	6.45	4.75	3.60	3.00	2.75		
END	Serviceability	4.18	3.63	3.08	2.55	2.06	1.62	1.22	0.85	0.50
	Strength	6.35	5.85	5.30	4.80	4.30	3.80	3.25	2.75	2.25
INTERNAL	Serviceability	5.05	4.18	3.42	2.83	2.36	1.94	1.56	1.23	0.97
	Strength	9.50	7.95	6.55	5.25	4.30	3.65	3.30	3.05	2.85
Base metal thickness 0.48mm										
SINGLE	Serviceability	7.27	5.06	3.34	2.06	1.15	0.71	0.50	0.42	
	Strength	12.00	11.60	9.60	7.75	6.10	4.75	3.60	2.65	
END	Serviceability	6.29	5.13	3.96	2.93	2.13	1.54	1.12	0.82	0.58
	Strength	9.40	8.00	6.55	5.30	4.35	3.65	3.25	2.95	2.75
INTERNAL	Serviceability	7.37	5.96	4.66	3.54	2.72	2.22	1.92	1.64	1.38
	Strength	9.90	8.55	7.35	6.25	5.40	4.75	4.30	3.85	3.45

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).

Maximum support spacings (mm)

Type of Span	BMT 0.42	0.48
Roofs		
Single Span	1100	1600
End Span	1300	1850
Internal Span	1900	2600
Unstiffened Overhang	150	200
Stiffened Overhang	300	350
Walls		
Single Span	2400	2700
End Span	3000	3000
Internal Span	3000	3000
Overhang	150	200

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 Trimdek Brochure.

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