



METECNOSPAN® SPAN TABLES

FOR WIND REGION D - CYCLONIC

(EXTERNAL ROOFING APPLICATIONS ONLY)

PIR Core 0.42mm hi-tensile / 0.5mm steel skins

Metecno

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WIND REGION D

Single span, wind pressure acting inwards

Maximum uniformly distributed load (kPa) for the given span:

Span (m):	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9
40 mm	4.66	3.85	3.26	2.83	2.49	2.12	1.71	1.40	1.16	0.97	0.81	0.68	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 mm	6.60	5.46	4.64	4.03	3.56	3.18	2.87	2.38	1.99	1.68	1.43	1.23	1.06	0.92	0.80	0.70	-	-	-	-	-	-	-	-	-	-	-	-	-
80 mm	8.20	6.79	5.78	5.03	4.44	3.97	3.59	3.27	2.91	2.48	2.12	1.84	1.60	1.40	1.23	1.08	0.96	0.85	-	-	-	-	-	-	-	-	-	-	-
100 mm	9.46	7.84	6.68	5.82	5.14	4.60	4.16	3.79	3.48	3.21	2.86	2.48	2.17	1.91	1.68	1.49	1.33	1.19	1.07	-	-	-	-	-	-	-	-	-	-

Single span, wind pressure acting outwards

Maximum uniformly distributed load (kPa) for the given span:

Span (m):	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9
40 mm	4.99	4.17	3.50	2.70	2.15	1.76	1.47	1.25	1.08	0.94	0.83	0.74	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 mm	6.94	5.80	4.63	3.57	2.84	2.32	1.93	1.64	1.41	1.23	1.08	0.96	0.86	0.78	0.71	0.65	-	-	-	-	-	-	-	-	-	-	-	-	-
80 mm	8.56	7.15	5.83	4.49	3.57	2.91	2.42	2.05	1.76	1.53	1.35	1.20	1.07	0.97	0.88	0.80	0.74	0.68	-	-	-	-	-	-	-	-	-	-	-
100 mm	9.83	8.21	7.06	5.43	4.31	3.51	2.92	2.47	2.12	1.85	1.62	1.44	1.29	1.16	1.05	0.96	0.88	0.81	0.75	-	-	-	-	-	-	-	-	-	-

Multi-span, wind pressure acting inwards

Maximum uniformly distributed load (kPa) for the given span:

Span (m):	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9
40 mm	3.68	3.03	2.56	2.21	1.82	1.43	1.14	0.92	0.75	0.61	0.50	0.41	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 mm	5.23	4.32	3.67	3.18	2.50	1.98	1.59	1.30	1.07	0.89	0.74	0.62	0.52	0.44	0.37	0.31	-	-	-	-	-	-	-	-	-	-	-	-	-
80 mm	6.51	5.38	4.58	3.97	3.21	2.55	2.07	1.69	1.41	1.18	0.99	0.84	0.72	0.61	0.52	0.45	0.38	0.32	-	-	-	-	-	-	-	-	-	-	-
100 mm	7.52	6.22	5.29	4.60	3.94	3.14	2.55	2.10	1.75	1.47	1.25	1.07	0.91	0.79	0.68	0.59	0.51	0.44	0.38	-	-	-	-	-	-	-	-	-	-

Multi-span, wind pressure acting outwards

Maximum uniformly distributed load (kPa) for the given span:

Span (m):	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9
40 mm	4.01	3.36	2.89	2.54	2.27	2.05	1.87	1.72	1.48	1.29	1.14	1.01	0.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 mm	5.57	4.66	4.01	3.52	3.14	2.83	2.58	2.38	2.20	2.02	1.77	1.57	1.40	1.26	1.14	1.04	-	-	-	-	-	-	-	-	-	-	-	-	-
80 mm	6.70	5.60	4.82	4.23	3.77	3.40	3.10	2.85	2.64	2.46	2.30	2.05	1.83	1.64	1.48	1.35	1.23	1.13	-	-	-	-	-	-	-	-	-	-	-
100 mm	7.89	6.59	5.67	4.97	4.43	4.00	3.64	3.35	3.10	2.89	2.70	2.47	2.20	1.98	1.78	1.62	1.48	1.36	1.25	-	-	-	-	-	-	-	-	-	-

NOTES

- Pressures specified are for wind gusts only per AS1170.
- Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m² for light duty fittings (lights, etc.). No other dead loads permitted.
- Non-trafficable maintenance access (concentrated load) of 140kg on any span has been allowed for, in roof pans only. Avoid stepping on the ribs.
- Distributed live load of 0.25kPa has been allowed for (as per AS/NZS 1170.1:2001).
- Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
- Fixing with 14g tek screws (or equivalent) at each rib and pan into min. into 1.5mm BMT steel purlin are required.
- Min. roof slope of 2 degree applies.
- This span table developed in accordance with lo-hi-lo cyclic test regime per BCA 2009.
- For FM Approved applications, a) max. span of 1830mm applies.
b) approved fasteners must be used. Refer Bondor.
- SecureLap roof lap jointing system is permitted to be used at the end support of multi-spans with no reduction in tabulated capacity.
1.9mm BMT purlin must be used at the SecureLap joint and the lower panel shall be secured to the 1.9mm purlin at all ribs and pans.
- Correct at the time of publishing. Refer Bondor for updates.
- Refer to your certifying engineer for panel selection.
- Refer to www.bondor.com.au for your local Bondor branch and representatives.
- Span tables have been developed by Bligh Tanner Consulting Engineers by interpretation of physical testing.