



SOLARSPAN® SPAN TABLES
FOR WIND REGION D - CYCLONIC
(EXTERNAL ROOF APPLICATIONS ONLY)
EPS-FR Core Grade SL 0.42mm hi-tensile / 0.6mm steel skins

WIND REGION D

Single Span (loaded 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
50 mm	4.64	3.80	3.19	2.74	2.39	2.11	1.88	1.54	1.25	1.02	0.83	0.68	0.55	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	7.17	5.90	5.00	4.32	3.79	3.37	3.03	2.74	2.27	1.90	1.60	1.35	1.15	0.98	0.83	0.71	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	9.70	8.01	6.81	5.90	5.20	4.63	4.17	3.79	3.34	2.82	2.40	2.06	1.77	1.53	1.33	1.16	1.01	0.88	0.77	0.67	0.59	0.51	0.44	0.38	-	-	-	-	-
125 mm	12.23	10.12	8.61	7.48	6.60	5.90	5.32	4.84	4.07	3.45	2.95	2.54	2.20	1.92	1.67	1.47	1.29	1.14	1.00	0.89	0.78	0.69	0.61	0.54	0.47	0.41	-	-	-
150 mm	14.76	12.23	10.42	9.06	8.00	7.16	6.47	5.73	4.82	4.09	3.51	3.03	2.63	2.30	2.02	1.78	1.57	1.39	1.24	1.10	0.98	0.87	0.78	0.69	0.62	0.55	0.48	0.43	-
175 mm	17.29	14.33	12.22	10.64	9.41	8.42	7.61	6.61	5.56	4.74	4.07	3.52	3.07	2.69	2.37	2.09	1.86	1.65	1.47	1.32	1.18	1.06	0.95	0.85	0.76	0.68	0.61	0.55	0.49
200 mm	19.82	16.44	14.03	12.22	10.81	9.68	8.76	7.49	6.32	5.38	4.63	4.02	3.51	3.08	2.72	2.41	2.14	1.91	1.71	1.54	1.38	1.24	1.12	1.01	0.91	0.82	0.74	0.67	0.60

Single Span (loaded outwards)

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

Span (m):	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9
50 mm	5.16	4.32	3.71	3.26	2.91	2.39	2.00	1.69	1.45	1.27	1.12	0.99	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	7.70	6.43	5.53	4.85	4.06	3.31	2.75	2.33	2.00	1.74	1.52	1.35	1.21	1.09	0.99	0.90	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	10.23	8.54	7.34	6.43	5.21	4.24	3.52	2.98	2.55	2.21	1.94	1.72	1.53	1.38	1.25	1.13	1.04	0.96	0.88	0.82	0.76	0.71	0.67	0.63	-	-	-	-	-
125 mm	12.77	10.66	9.15	8.02	6.37	5.18	4.30	3.63	3.11	2.69	2.36	2.09	1.86	1.67	1.51	1.37	1.25	1.15	1.06	0.98	0.92	0.85	0.80	0.75	0.71	0.67	-	-	-
150 mm	15.31	12.77	10.96	9.51	7.54	6.13	5.08	4.29	3.67	3.18	2.78	2.46	2.19	1.96	1.77	1.61	1.47	1.35	1.24	1.15	1.07	1.00	0.93	0.87	0.82	0.77	0.73	0.69	-
175 mm	17.84	14.89	12.78	10.99	8.71	7.07	5.86	4.95	4.23	3.66	3.20	2.83	2.52	2.26	2.04	1.85	1.69	1.55	1.43	1.32	1.22	1.14	1.07	1.00	0.94	0.88	0.83	0.79	0.75
200 mm	20.38	17.00	14.59	12.47	9.88	8.02	6.65	5.60	4.79	4.15	3.63	3.20	2.85	2.55	2.30	2.09	1.91	1.75	1.61	1.49	1.38	1.28	1.20	1.12	1.05	0.99	0.93	0.88	0.84

Double Span (loaded 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
50 mm	3.63	2.95	2.47	2.11	1.83	1.60	1.42	1.17	0.94	0.75	0.60	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	5.65	4.64	3.91	3.37	2.95	2.61	2.23	1.80	1.47	1.21	1.00	0.83	0.68	0.56	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	7.67	6.32	5.36	4.63	4.07	3.62	2.99	2.44	2.02	1.68	1.41	1.18	1.00	0.84	0.71	0.60	0.51	0.42	-	-	-	-	-	-	-	-	-	-	-
125 mm	9.70	8.01	6.80	5.90	5.19	4.63	3.76	3.09	2.57	2.15	1.82	1.55	1.32	1.13	0.97	0.83	0.71	0.61	0.52	0.44	0.38	-	-	-	-	-	-	-	-
150 mm	11.72	9.69	8.24	7.16	6.31	5.58	4.53	3.74	3.12	2.63	2.23	1.91	1.64	1.42	1.23	1.06	0.92	0.80	0.70	0.60	0.52	0.45	0.38	-	-	-	-	-	-
175 mm	13.74	11.38	9.69	8.42	7.44	6.52	5.31	4.39	3.67	3.11	2.65	2.27	1.96	1.70	1.48	1.29	1.13	0.99	0.87	0.76	0.67	0.58	0.51	0.44	0.38	-	-	-	-
200 mm	15.76	13.06	11.13	9.68	8.56	7.46	6.09	5.04	4.23	3.59	3.07	2.64	2.29	1.99	1.74	1.53	1.34	1.18	1.05	0.92	0.82	0.72	0.64	0.56	0.49	0.43	-	-	-

Double Span (loaded 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
50 mm	4.15	3.47	2.99	2.63	2.35	2.12	1.94	1.78	1.65	1.54	1.35	1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	5.10	4.26	3.67	3.22	2.87	2.60	2.37	2.18	2.02	1.88	1.76	1.66	1.57	1.49	1.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	6.51	5.44	4.68	4.11	3.66	3.30	3.01	2.77	2.56	2.39	2.24	2.10	1.98	1.88	1.79	1.69	1.54	1.42	-	-	-	-	-	-	-	-	-	-	-
125 mm	9.38	7.84	6.73	5.90	5.26	4.74	4.32	3.97	3.67	3.42	3.20	3.00	2.74	2.46	2.21	2.01	1.83	1.68	1.54	1.43	1.32	-	-	-	-	-	-	-	-
150 mm	9.39	7.84	6.73	5.91	5.26	4.75	4.32	3.97	3.68	3.42	3.20	3.01	2.84	2.68	2.55	2.33	2.12	1.94	1.79	1.65	1.53	1.42	1.32	-	-	-	-	-	-
175 mm	9.39	7.84	6.74	5.91	5.27	4.75	4.33	3.98	3.68	3.42	3.20	3.01	2.84	2.69	2.55	2.43	2.32	2.21	2.03	1.87	1.73	1.61	1.50	1.41	1.32	-	-	-	-
200 mm	9.45	7.89	6.78	5.95	5.30	4.78	4.35	4.00	3.70	3.45	3.22	3.03	2.86	2.70	2.57	2.45	2.33	2.23	2.14	2.06	1.94	1.80	1.68	1.57	1.47	1.38	-	-	-

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 25kg/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.
- 6a. For 50mm-100mm thick panels fixing with 14g-14 Buildex screws into minimum 1.5mm BMT G450 steel. Fixings to be every rib and pan using Multiseal washers.
- 6b. For 125mm-200mm thick panels fixing with 14g-14 Ideal Fastener screws into minimum 1.9mm BMT G450 steel. Fixings to be every rib and pan using Squarelok (BX) washers on ribs and Multiseal washers in pans.
- Min. roof slope of 2 degree applies.
- As a rule of thumb, the allowable overhang is 1/4 of the back span, unless stated otherwise. Allowable side overhang is 300mm.
- This span table applies to cyclonic region D only.
- 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.