



SOLARSPAN® SPAN TABLES

FOR WIND REGION A - NON CYCLONIC

(EXTERNAL ROOF APPLICATIONS ONLY)

EPS-FR Core Grade SL 0.42mm hi-tensile / 0.6mm steel skins

WIND REGION A

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	3.68	2.92	2.34	1.89	1.54	1.25	1.02	0.82	0.66	0.53	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	7.17	5.90	4.81	3.95	3.28	2.74	2.30	1.94	1.63	1.38	1.17	0.98	0.83	0.70	0.58	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	8.94	7.18	5.90	4.93	4.16	3.54	3.04	2.61	2.26	1.95	1.69	1.47	1.28	1.11	0.96	0.83	0.72	0.61	0.53	0.45	0.38	-	-	-	-	-	-	-	-
125 mm	10.51	8.50	7.05	5.94	5.07	4.37	3.79	3.30	2.89	2.54	2.23	1.97	1.74	1.54	1.36	1.20	1.06	0.93	0.82	0.72	0.63	0.55	0.48	0.41	-	-	-	-	-
150 mm	12.77	10.38	8.65	7.34	6.30	5.46	4.77	4.19	3.70	3.27	2.90	2.58	2.30	2.06	1.84	1.64	1.47	1.31	1.17	1.05	0.94	0.83	0.74	0.66	0.58	0.51	0.45	0.40	-
175 mm	15.01	12.23	10.22	8.69	7.49	6.52	5.71	5.04	4.46	3.97	3.54	3.17	2.84	2.55	2.29	2.06	1.85	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	17.32	14.16	11.87	10.14	8.78	7.67	6.76	6.00	5.34	4.78	4.29	3.86	3.48	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
250 mm	21.87	17.94	15.11	12.96	11.27	9.91	8.78	7.83	7.02	6.33	5.72	5.18	4.71	4.23	3.75	3.34	2.99	2.68	2.41	2.18	1.97	1.79	1.63	1.48	1.35	1.23	1.12	1.03	0.94
300 mm	26.43	21.73	18.35	15.79	13.78	12.16	10.82	9.69	8.73	7.89	6.90	6.01	5.27	4.65	4.12	3.68	3.29	2.96	2.67	2.41	2.19	1.99	1.81	1.65	1.51	1.38	1.26	1.15	1.06

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	3.0	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	5.16	4.14	3.38	2.80	2.35	2.00	1.71	1.47	1.28	1.12	0.99	0.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	7.70	6.40	5.27	4.41	3.74	3.20	2.75	2.33	2.00	1.74	1.52	1.35	1.21	1.09	0.99	0.90	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	9.41	7.65	6.37	5.40	4.63	4.02	3.51	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	-	-	-	-	-	-	-	-
125 mm	10.98	8.98	7.53	6.42	5.55	4.85	4.27	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	-	-	-	-	-
150 mm	13.26	10.87	9.14	7.82	6.78	5.95	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	15.51	12.73	10.72	9.19	7.99	7.01	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	17.81	14.65	12.37	10.64	9.28	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	1.48	1.38	1.28	1.20	1.12	1.05	0.99	0.93	0.88	0.84
250 mm	19.18	16.01	13.74	12.03	10.71	9.65	8.22	6.93	5.92	5.12	4.47	3.95	3.51	3.14	2.83	2.57	2.34	2.14	1.97	1.82	1.69	1.57	1.46	1.37	1.28	1.21	1.14	1.07	1.02
300 mm	19.19	16.01	13.74	12.04	10.72	9.66	8.79	8.07	7.05	6.09	5.32	4.69	4.17	3.73	3.36	3.05	2.78	2.54	2.33	2.15	1.99	1.85	1.73	1.62	1.51	1.42	1.34	1.27	1.20

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	1.99	1.62	1.32	1.08	0.88	0.71	0.57	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	5.44	4.34	3.54	2.93	2.45	2.06	1.74	1.48	1.26	1.07	0.91	0.77	0.65	0.54	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	7.47	6.02	4.96	4.16	3.53	3.01	2.59	2.24	1.94	1.68	1.41	1.18	1.00	0.84	0.71	0.60	0.51	0.42	-	-	-	-	-	-	-	-	-	-	-
125 mm	8.77	7.11	5.91	5.00	4.28	3.70	3.22	2.81	2.47	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	10.66	8.68	7.25	6.16	5.31	4.61	4.04	3.56	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	12.53	10.23	8.57	7.30	6.31	5.51	4.84	4.28	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	14.45	11.83	9.94	8.51	7.38	6.47	5.72	5.04	4.23	3.59	3.07	2.64	2.29	1.99	1.74	1.53	1.34	1.19	1.05	0.92	0.82	0.72	0.64	0.56	0.49	0.43	-	-	-
250 mm	18.24	14.99	12.64	10.86	9.47	8.34	7.41	6.35	5.34	4.55	3.90	3.37	2.94	2.57	2.26	1.99	1.77	1.57	1.40	1.25	1.11	0.99	0.89	0.79	0.71	0.63	0.56	0.50	0.44
300 mm	22.04	18.15	15.35	13.23	11.56	10.22	9.11	7.66	6.46	5.51	4.74	4.11	3.58	3.15	2.78	2.46	2.19	1.95	1.75	1.57	1.41	1.27	1.14	1.03	0.93	0.84	0.75	0.68	0.61

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	2.93	2.45	2.07	1.78	1.53	1.33	1.17	1.03	0.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 mm	5.90	4.80	4.00	3.39	2.91	2.53	2.21	1.94	1.72	1.53	1.37	1.23	1.11	1.01	0.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 mm	7.61	6.36	5.43	4.63	4.00	3.49	3.06	2.71	2.41	2.16	1.94	1.75	1.58	1.44	1.31	1.20	1.10	1.01	-	-	-	-	-	-	-	-	-	-	-
125 mm	7.74	6.47	5.56	4.88	4.35	3.92	3.57	3.28	2.95	2.66	2.40	2.18	1.98	1.81	1.66	1.52	1.40	1.29	1.20	1.11	1.03	-	-	-	-	-	-	-	-
150 mm	7.74	6.47	5.56	4.88	4.35	3.92	3.58	3.29	3.04	2.83	2.65	2.49	2.35	2.23	2.08	1.92	1.77	1.63	1.51	1.41	1.31	1.22	1.14	-	-	-	-	-	-
175 mm	7.74	6.47	5.56	4.88	4.35	3.92	3.58	3.29	3.04	2.83	2.65	2.49	2.35	2.23	2.12	2.02	1.93	1.84	1.77	1.69	1.57	1.46	1.37	1.28	1.20	-	-	-	-
200 mm	7.75	6.48	5.57	4.88	4.35	3.93	3.58	3.29	3.05	2.84	2.66	2.50	2.36	2.23	2.12	2.02	1.93	1.85	1.77	1.70	1.64	1.58	1.53	1.48	1.43	1.38	-	-	-
250 mm	7.74	6.47	5.57	4.88	4.35	3.93	3.58	3.30	3.05	2.84	2.66	2.50	2.36	2.24	2.12	2.02	1.93	1.85	1.78	1.71	1.64	1.58	1.53	1.48	1.43	1.39	1.35	1.31	1.27
300 mm	7.75	6.48	5.57	4.89	4.36	3.94	3.59	3.30	3.06	2.85	2.67	2.51	2.37	2.24	2.13	2.03	1.94	1.86	1.78	1.71	1.65	1.59	1.54	1.48	1.44	1.39	1.35	1.31	1.28

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.
- Fixing with 14g tek screws (or equivalent) at each rib are required.
- 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 non-cyclonic region only.
- SolarLap roof lap jointing system is permitted to be used at the end support of multi-spans with no reduction in tabulated capacity.
- 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.