# METECNOPANEL® SPAN TABLES
## FOR WIND REGION A - NON CYCLONIC
## (EXTERNAL ROOF APPLICATIONS ONLY)
## PIR Core 0.6mm steel skins

**WIND REGION A**

**Single span, wind pressure acting inwards**

Maximum uniformly distributed ULS design wind 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 | 2.67 | 2.18 | 1.83 | 1.57 | 1.37 | 1.20 | 1.07 | 0.96 | 0.84 | 0.68 | 0.56 | 0.46 | 0.38 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 75 mm | 4.12 | 3.39 | 2.86 | 2.47 | 2.17 | 1.92 | 1.72 | 1.56 | 1.37 | 1.15 | 0.96 | 0.81 | 0.69 | 0.59 | 0.50 | 0.42 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 mm | 5.57 | 4.60 | 3.90 | 3.38 | 2.97 | 2.64 | 2.38 | 2.16 | 1.91 | 1.61 | 1.36 | 1.16 | 1.00 | 0.86 | 0.74 | 0.64 | 0.56 | 0.48 | 0.42 | - | - | - | - | - | - | - | - | - | - |
| 150 mm | 8.49 | 7.02 | 5.97 | 5.19 | 4.58 | 4.09 | 3.69 | 3.36 | 2.99 | 2.54 | 2.17 | 1.87 | 1.62 | 1.42 | 1.24 | 1.09 | 0.96 | 0.85 | 0.75 | 0.66 | 0.59 | 0.52 | 0.46 | 0.41 | - | - | - | - | - |
| 200 mm | 11.39 | 9.44 | 8.04 | 7.00 | 6.18 | 5.53 | 5.00 | 4.56 | 4.07 | 3.46 | 2.97 | 2.57 | 2.24 | 1.96 | 1.73 | 1.53 | 1.36 | 1.21 | 1.08 | 0.96 | 0.86 | 0.77 | 0.69 | 0.62 | 0.56 | 0.50 | 0.45 | 0.40 | - |

**Single span, wind pressure acting outwards**

Maximum uniformly distributed ULS design wind 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 | 3.04 | 2.55 | 2.20 | 1.94 | 1.73 | 1.57 | 1.44 | 1.33 | 1.20 | 1.05 | 0.93 | 0.83 | 0.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 75 mm | 4.51 | 3.78 | 3.25 | 2.86 | 2.56 | 2.31 | 2.11 | 1.95 | 1.76 | 1.53 | 1.35 | 1.20 | 1.08 | 0.97 | 0.89 | 0.81 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 mm | 5.98 | 5.01 | 4.31 | 3.78 | 3.38 | 3.05 | 2.79 | 2.56 | 2.32 | 2.02 | 1.77 | 1.57 | 1.41 | 1.27 | 1.15 | 1.05 | 0.96 | 0.89 | 0.82 | - | - | - | - | - | - | - | - | - | - |
| 150 mm | 8.92 | 7.46 | 6.41 | 5.63 | 5.02 | 4.53 | 4.13 | 3.80 | 3.43 | 2.98 | 2.61 | 2.31 | 2.06 | 1.85 | 1.68 | 1.53 | 1.40 | 1.29 | 1.19 | 1.10 | 1.03 | 0.96 | 0.90 | 0.85 | - | - | - | - | - |
| 200 mm | 11.87 | 9.92 | 8.52 | 7.48 | 6.66 | 6.01 | 5.48 | 5.04 | 4.54 | 3.94 | 3.45 | 3.05 | 2.72 | 2.44 | 2.21 | 2.01 | 1.84 | 1.69 | 1.56 | 1.44 | 1.34 | 1.25 | 1.17 | 1.10 | 1.04 | 0.98 | 0.93 | 0.88 | - |

**Multi-span, wind pressure acting inwards**

Maximum uniformly distributed ULS design wind 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 | 2.08 | 1.69 | 1.41 | 1.20 | 1.04 | 0.91 | 0.80 | 0.71 | 0.64 | 0.58 | 0.52 | 0.46 | 0.38 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 75 mm | 3.24 | 2.66 | 2.24 | 1.92 | 1.68 | 1.48 | 1.32 | 1.19 | 1.08 | 0.98 | 0.90 | 0.81 | 0.69 | 0.59 | 0.50 | 0.42 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 mm | 4.40 | 3.62 | 3.06 | 2.64 | 2.32 | 2.06 | 1.85 | 1.67 | 1.52 | 1.39 | 1.28 | 1.16 | 1.00 | 0.86 | 0.74 | 0.64 | 0.56 | 0.48 | 0.42 | - | - | - | - | - | - | - | - | - | - |
| 150 mm | 6.73 | 5.56 | 4.72 | 4.09 | 3.60 | 3.21 | 2.89 | 2.63 | 2.40 | 2.21 | 2.04 | 1.87 | 1.62 | 1.42 | 1.24 | 1.09 | 0.96 | 0.85 | 0.75 | 0.66 | 0.59 | 0.52 | 0.46 | 0.41 | - | - | - | - | - |
| 200 mm | 9.05 | 7.49 | 6.37 | 5.53 | 4.88 | 4.36 | 3.94 | 3.58 | 3.28 | 3.02 | 2.80 | 2.57 | 2.24 | 1.96 | 1.73 | 1.53 | 1.36 | 1.21 | 1.08 | 0.96 | 0.86 | 0.77 | 0.69 | 0.62 | 0.56 | 0.50 | 0.45 | 0.40 | - |

**Multi-span, wind pressure acting outwards**

Maximum uniformly distributed ULS design wind 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 | 2.45 | 2.06 | 1.78 | 1.57 | 1.41 | 1.28 | 1.17 | 1.08 | 1.01 | 0.94 | 0.89 | 0.83 | 0.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 75 mm | 3.63 | 3.04 | 2.63 | 2.31 | 2.07 | 1.87 | 1.71 | 1.58 | 1.47 | 1.37 | 1.29 | 1.20 | 1.08 | 0.97 | 0.89 | 0.81 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 mm | 4.81 | 4.03 | 3.47 | 3.05 | 2.73 | 2.47 | 2.25 | 2.08 | 1.93 | 1.80 | 1.69 | 1.57 | 1.41 | 1.27 | 1.15 | 1.05 | 0.96 | 0.89 | 0.82 | - | - | - | - | - | - | - | - | - | - |
| 150 mm | 7.17 | 6.00 | 5.16 | 4.53 | 4.04 | 3.65 | 3.33 | 3.07 | 2.84 | 2.65 | 2.48 | 2.31 | 2.06 | 1.85 | 1.68 | 1.53 | 1.40 | 1.29 | 1.19 | 1.10 | 1.03 | 0.96 | 0.90 | 0.85 | - | - | - | - | - |
| 200 mm | 9.53 | 7.97 | 6.85 | 6.01 | 5.36 | 4.84 | 4.41 | 4.06 | 3.76 | 3.50 | 3.28 | 3.05 | 2.72 | 2.44 | 2.21 | 2.01 | 1.84 | 1.69 | 1.56 | 1.44 | 1.34 | 1.25 | 1.17 | 1.10 | 1.04 | 0.98 | 0.93 | 0.88 | - |

**NOTES**

1. Pressures specified are for wind gusts only per AS1170.
2. Self weight of the panel has been allowed for, plus an allowance of up to 10kg/$m^2$ for light duty fittings (lights, etc.). No other dead loads permitted.
3. Non-trafficable maintenance access (concentrated load) of 140kg on any span has been allowed for.
4. Distributed live load of 0.25kPa has been allowed for (as per AS/NZS 1170.1:2001).
5. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
6. Fixing with min. 4x tek screws or 2x mushroom head bolts at each line of support per panel are required.
7. Min. roof slope of 3 degree applies.
8. This span table applies to non-cyclonic region only.
9. For FM Approved applications, a) a max. span of 1830mm applies.
   b) approved fasteners must be used. Refer Bondor.
10. Correct at the time of publishing. Refer Bondor for updates.
11. Refer to your certifying engineer for panel selection.
12. Refer to www.bondor.com.au for your local Bondor branch and representatives.
13. Span tables have been developed by Bligh Tanner Consulting Engineers by interpretation of physical testing.

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