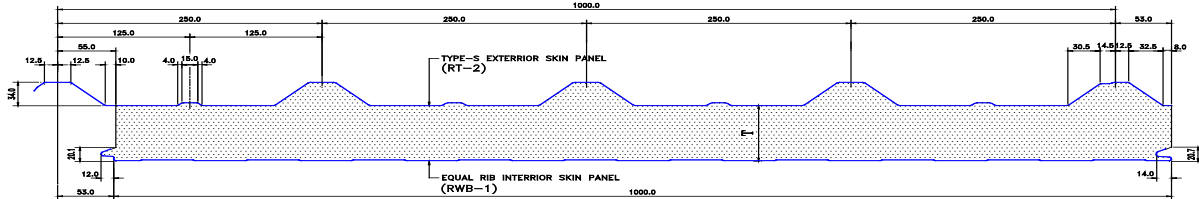


TEMPCON "TCSQ" INSULATED ALUMINUM PANEL
(Nominal Thickness T=50 mm)



Section Properties

| Skin Thickness (mm) | | Weight kg/m ² | Area cm ² | Top in Compression | | | | Bottom in Compression | | | | Web Shear & Cripp. | |
|---------------------|----------|-----------------------------|-------------------------|-----------------------|---------------------------|-----------------------------|------------|-----------------------|---------------------------|-----------------------------|------------|--------------------|----------|
| Exterior | Interior | | | Ix cm ⁴ | Zx-Top cm ³ | Zx-Bott. cm ³ | Ma kN.m | Ix cm ⁴ | Zx-Top cm ³ | Zx-Bott. cm ³ | Ma kN.m | Va kN | Pa kN |
| 0.7 | 0.7 | 6.64 | 16.00 | 102.69 | 14.92 | 37.87 | 1.44 | 116.78 | 21.70 | 30.92 | 2.10 | 3.79 | 7.03 |
| 0.7 | 0.5 | 6.07 | 13.87 | 84.77 | 13.94 | 25.66 | 1.35 | 87.88 | 18.62 | 18.78 | 1.80 | 3.79 | 6.30 |
| 0.5 | 0.5 | 5.41 | 11.43 | 60.53 | 8.77 | 24.22 | 0.85 | 73.48 | 14.00 | 18.20 | 1.35 | 3.63 | 6.30 |

Load Table [kN/m²]

| Skin Thickness (mm) | Number of Spans | Load Case | Span in meters | | | | | | | | | | |
|------------------------|-----------------------|--------------|----------------|------|------|------|------|------|------|------|------|------|------|
| | | | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 |
| Ext. 0.7 Int. 0.7 | 1 | D+L | 5.05 | 3.77 | 2.89 | 2.28 | 1.85 | 1.45 | 1.12 | 0.88 | 0.70 | 0.57 | 0.47 |
| | | WP | 6.72 | 5.01 | 3.84 | 3.03 | 2.46 | 2.03 | 1.67 | 1.32 | 1.05 | 0.86 | 0.71 |
| | | WS | 7.14 | 6.12 | 5.35 | 4.41 | 3.29 | 2.47 | 1.90 | 1.50 | 1.20 | 0.98 | 0.80 |
| | 2 | D+L | 3.75 | 3.21 | 2.81 | 2.50 | 2.25 | 2.05 | 1.87 | 1.59 | 1.37 | 1.19 | 1.05 |
| | | WP | 4.99 | 4.27 | 3.74 | 3.32 | 2.99 | 2.72 | 2.48 | 2.11 | 1.82 | 1.59 | 1.40 |
| | | WS | 5.37 | 4.60 | 3.84 | 3.03 | 2.46 | 2.03 | 1.71 | 1.45 | 1.25 | 1.09 | 0.96 |
| | 3 | D+L | 4.26 | 3.65 | 3.20 | 2.84 | 2.31 | 1.91 | 1.60 | 1.37 | 1.18 | 1.03 | 0.90 |
| | | WP | 5.67 | 4.86 | 4.25 | 3.78 | 3.07 | 2.54 | 2.13 | 1.82 | 1.57 | 1.36 | 1.20 |
| | | WS | 5.60 | 4.80 | 4.20 | 3.73 | 3.07 | 2.54 | 2.13 | 1.82 | 1.57 | 1.36 | 1.20 |
| Ext. 0.7 Int. 0.5 | 1 | D+L | 4.79 | 3.52 | 2.70 | 2.13 | 1.59 | 1.20 | 0.92 | 0.73 | 0.58 | 0.47 | 0.39 |
| | | WP | 6.37 | 4.68 | 3.59 | 2.83 | 2.29 | 1.80 | 1.38 | 1.09 | 0.87 | 0.71 | 0.58 |
| | | WS | 7.14 | 6.12 | 4.79 | 3.40 | 2.48 | 1.86 | 1.43 | 1.13 | 0.90 | 0.73 | 0.60 |
| | 2 | D+L | 3.36 | 2.88 | 2.52 | 2.24 | 2.02 | 1.83 | 1.60 | 1.36 | 1.18 | 1.02 | 0.90 |
| | | WP | 4.47 | 3.83 | 3.35 | 2.98 | 2.68 | 2.44 | 2.13 | 1.81 | 1.56 | 1.36 | 1.20 |
| | | WS | 5.37 | 4.60 | 3.59 | 2.83 | 2.29 | 1.90 | 1.59 | 1.36 | 1.17 | 1.02 | 0.90 |
| | 3 | D+L | 3.82 | 3.27 | 2.86 | 2.55 | 2.16 | 1.78 | 1.50 | 1.28 | 1.10 | 0.91 | 0.75 |
| | | WP | 5.08 | 4.35 | 3.81 | 3.39 | 2.87 | 2.37 | 1.99 | 1.70 | 1.46 | 1.27 | 1.12 |
| | | WS | 5.60 | 4.80 | 4.20 | 3.54 | 2.87 | 2.37 | 1.99 | 1.70 | 1.46 | 1.27 | 1.12 |
| Ext. 0.5 Int. 0.5 | 1 | D+L | 3.02 | 2.22 | 1.70 | 1.34 | 1.09 | 0.85 | 0.66 | 0.52 | 0.41 | 0.34 | 0.28 |
| | | WP | 4.01 | 2.95 | 2.26 | 1.78 | 1.44 | 1.19 | 0.99 | 0.78 | 0.62 | 0.51 | 0.42 |
| | | WS | 6.40 | 4.70 | 3.60 | 2.84 | 2.07 | 1.56 | 1.20 | 0.94 | 0.75 | 0.61 | 0.51 |
| | 2 | D+L | 3.36 | 2.88 | 2.52 | 2.14 | 1.73 | 1.43 | 1.20 | 1.03 | 0.88 | 0.77 | 0.68 |
| | | WP | 4.47 | 3.83 | 3.35 | 2.85 | 2.31 | 1.91 | 1.60 | 1.36 | 1.18 | 1.02 | 0.90 |
| | | WS | 4.01 | 2.95 | 2.26 | 1.78 | 1.44 | 1.19 | 1.00 | 0.85 | 0.74 | 0.64 | 0.56 |
| | 3 | D+L | 3.77 | 2.77 | 2.12 | 1.68 | 1.36 | 1.12 | 0.94 | 0.80 | 0.69 | 0.60 | 0.53 |
| | | WP | 5.01 | 3.68 | 2.82 | 2.23 | 1.80 | 1.49 | 1.25 | 1.07 | 0.92 | 0.80 | 0.70 |
| | | WS | 5.01 | 3.68 | 2.82 | 2.23 | 1.80 | 1.49 | 1.25 | 1.07 | 0.92 | 0.80 | 0.70 |

Note: D + L = Dead + Live Load (Deflection limit Span/180)
 WP = Wind Pressure (Deflection limit Span/120)
 WS = Wind Suction (Deflection limit Span/120)
 Material conforming to ALLOY 3003 H26 (Fy = 16.15 kN/cm²) or equivalent