

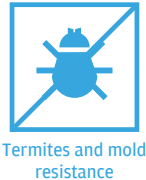
# THE VANTEM PANEL

Vantem Panels simplify construction, reducing costs and time. They are highly structural, capable of supporting high compression, flexural, and shear loads and may be used to build multi-story structures without additional steel or concrete reinforcement.

The panel facings are our proprietary Vantem Board, a structural cementitious board that is resistant to fire, moisture, insects and mold. The panel core is a highly effective insulation layer, making our panels perfect for building energy-efficient Net Zero structures.



## Advantages of Vantem



| GENERAL FEATURES |              |   |   |
|------------------|--------------|---|---|
| Width            | Lengths      | Thicknesses                             | Weight per m2 (average)                                 |
| 1220 mm          | 2440-3600 mm | 80-300 mm according to insulation needs | With 8mm board = 19 kg/m2<br>With 12mm board = 28 kg/m2 |

| COMPRESSION STRENGTH (VERTICAL LOADS) <sup>(1)</sup> |                         |
|--|-------------------------|
| Panel Type   | Maximum Load to Failure |
| Panel with 12 mm board                               | 18000 Kg/ml             |
| Panel with 8 mm board                                | 15000 Kg/ml             |

| FLEXURAL STRENGTH (TRANSVERSE LOADS) <sup>(2)</sup> |                         |
|---|-------------------------|
| Panel Type  | Maximum Load to Failure |
| Panel with 12 mm board                              | 737 Kg/m2               |
| Panel with 8 mm board                               | 737 Kg/m2               |

| RACKING SHEAR VALUES (HORIZONTAL LOADS) <sup>(3)</sup> |                         |
|--|-------------------------|
| Panel Type   | Maximum Load to Failure |
| Panel with 12 mm board                                 | 1400 Kg/ml              |
| Panel with 8 mm board                                  | 1400 Kg/ml              |

| FIRE RATING <sup>(4)</sup> |         |
|----------------------------|---------|
| Panel Type                 | Rating  |
| Panel with 12 mm board     | 63 min. |
| Panel with 8 mm board      | 41 min. |

| ACOUSTIC RATING <sup>(5)</sup>  |        |
|---------------------------------|--------|
| Panel Type                      | Rating |
| Standard panel with 8 mm board  | 29 dB  |
| Standard panel with 12 mm board | 36 dB  |
| Acoustic panel with 8 mm board  | 38 dBA |
| Acoustic panel with 12 mm board | 47 dBA |

(1) Based on standard ASTM E72-02 "Standard Test Methods for Testing the Strength of Panels for Building Construction" and standard NCh 801 "Panel compression tensile test".  
 (2) Based on standard ASTM E72-02 "Standard Test Methods for Testing the Strength of Panels for Building Construction" and standard NCh 803 "Bending tests on panels".  
 (3) Based on standard ASTM E72-02 "Standard Test Methods for Testing the Strength of Panels for Building Construction" and standard NCh 802 "Horizontal load tests of prefabricated panels".  
 (4) Based on code ASTM E119-80 "Fire Testing of Building Construction and Materials" and Chile standard NCh935/10f.97 "Fire resistance".  
 (5) These values are for reference only. It is recommended to use a safety factor of 3; A qualified structural engineer must verify the maximum design loads according to the project, laws and legal regulations in force in the country, whether municipal, state or national.