

## Particleboard HMR

Particleboard HMR is a highly moisture resistant particleboard for use in areas of high humidity or areas where occasional wetting may occur.

The superior performance of Particleboard HMR compared to Particleboard Standard is due to the bonding of wood particles with a special moisture resistant resin system. Particleboard HMR can be easily identified by the green dye incorporated in the core of the board.

### Applications

Particleboard HMR is designed for interior use for the following applications:

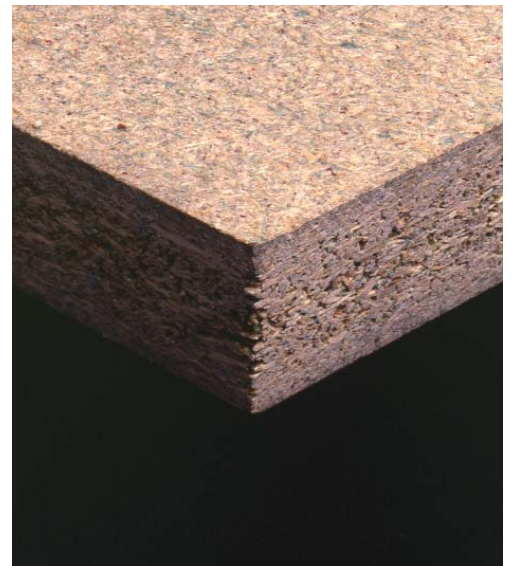
Kitchen cupboards, bathroom vanities, laundry cupboards, shelving or any situation where a moisture resistant particleboard is required. 33mm Particleboard is used for tables, desks and bench tops.

### Moisture resistance

Particleboard complies with the Wet Cyclic Test for moisture resistance properties as specified in AS/NZS1859.1: 2001 (Int). Refer to Physical Properties table for details.



| Physical Properties<br>(Typical physical properties when tested to AS/NZS 1859.1: 2001. Int) |                   |                 |       |           |       |       |
|--|-------------------|-----------------|-------|-----------|-------|-------|
| Property   | Unit              | Board Thickness |       |           |       |       |
|  |                   | 9mm             | 12mm  | 16mm-18mm | 25mm  | 33mm  |
| Board Density  | Kg/m <sup>3</sup> | 700             | 670   | 640       | 620   | 640   |
| Internal Bond  | KPa               | 700             | 670   | 580       | 550   | 550   |
| Modulus of Rupture   | MPa               | 19              | 19    | 19        | 18    | 18    |
| Modulus of Elasticity  | MPa               | 2700            | 2800  | 2600      | 2700  | 2800  |
| *Screw Holding - Face  | N                 | N/A             | N/A   | 700       | 700   | 800   |
| *Screw Holding - Edge  | N                 | N/A             | N/A   | 1000      | 900   | 900   |
| Surface Soundness  | MPa               | 1.0             | 1.2   | 1.4       | 1.2   | 1.5   |
| Moisture Content   | %                 | 5-8             | 5-8   | 5-8       | 5-8   | 5-8   |
| Thickness Swell 24hr   | %                 | 10 av.          | 9 av. | 8 av.     | 7 av. | 6 av. |
| Moisture Resistance  | Test              | V313            | V313  | V313      | V313  | V313  |



\*Values reflect new testing methods for screw holding properties in AS/NZS 4266.13: 2001 (Int).

# In most instances the performance characteristics of the particleboard exceeds the minimum requirement of AS/NZS 1859.1: 2001. However for minimum property values refer to AS/NZS 1859.1: 2001 (Int).

| General Board Weight |                   |
|----------------------|-------------------|
| Unit                 | Kg/m <sup>2</sup> |
| 9mm                  | 6.3               |
| 12mm                 | 8.0               |
| 16mm                 | 10.2              |
| 18mm                 | 11.5              |
| 25mm                 | 15.5              |
| 33mm                 | 21.1              |

| Fire Hazard Indices<br>(Typical achieved when tested to AS/NZS 1530.3 :1989) |        |        |
|--|--------|--------|
| Indices  | Result | Range  |
| Ignitability   | 14     | 0 - 20 |
| Spread of Flame  | 8      | 0 - 10 |
| Heat Evolved   | 7      | 0 - 10 |
| Smoke Developed  | 3      | 0 - 10 |