

## Evaluating properties of wood-based fibre and particle panel materials

### Janka Hardness

### ASTM D1037, Clause 17

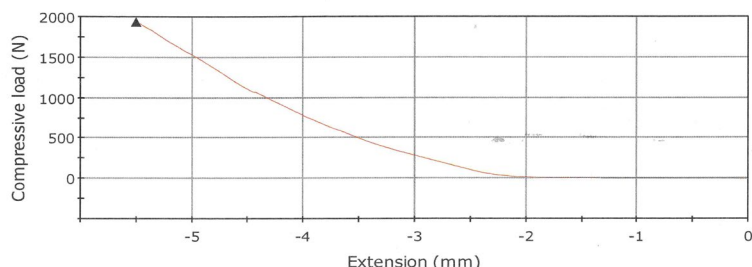
Damage caused by stiletto type heels or even fine legged furniture, can be a significant concern for consumers of high cost products such as flooring in both residential and commercial premises.

The Janka Hardness Test is a measure of the hardness of wood, developed as a variation of the Brinell hardness test, to determine the suitability of various timbers for flooring. The test measures the force required to push a steel ball with a diameter of 11.28 millimetres (100 mm<sup>2</sup> area at it widest) into the wood to a depth of half the ball's diameter (5.64 mm).



Testing is conducted using a constant rate of extension (CRE) testing unit. The compressive load required to force the ball to 5.64mm into the specimen is recorded and expressed as the hardness value. A number of individual tests are conducted and results averaged to determine the Janka Hardness

COMPRESSION TEST



Where one face of the panel is different from the other, as for example the smooth face and wire-textured back of most hardboards, the data obtained from the two faces is reported separately. Specimens must be at least 1 in. (25 mm) thick. Panels manufactured in thicknesses of less than 1 in. (25 mm) shall be made by bonded together to make the required thickness.

**Sample size:** 3 samples, 200mm x width of panel

**Test code:** T14H

Delivery Address	Further information
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**IMPORTANT NOTE:** That by submitting samples for testing YOU AGREE that the resulting testing shall be performed under our terms and conditions for testing and consulting services: [www.awtaproducttesting.com.au/index.php/about/terms-and-conditions](http://www.awtaproducttesting.com.au/index.php/about/terms-and-conditions)

