

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

## Janka Hardness

## ASTM D1037, Clause 17

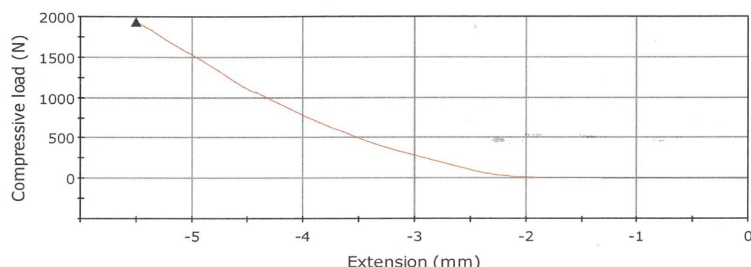
Damage caused by stiletto type heels or even fine legged furniture, can be a significant concern for consumers of high cost products such as flooring in both residential and commercial premises.

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
AWTA Product Testing Level 1, 191 Racecourse Rd, Flemington VIC 3031, Australia	AWTA Product Testing Phone: (03) 9371 2400 Email: <a href="mailto:producttesting@awta.com.au">producttesting@awta.com.au</a>

**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)

# AWTA PRODUCT TESTING

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## TEST REQUEST

REPORT CLIENT: ..... CONTACT PERSON: .....  
ADDRESS: .....  
TELEPHONE NO ..... EMAIL ADDRESS: .....  
INVOICE THIS CLIENT: YES/NO ORDER NUMBER: .....  
CLIENT TO BE INVOICED: .....

**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)

AUTHORISED BY: ..... DATE: ...../...../..... PHOTO .....

AWTA Ltd Use Only

REQUEST WRITER: ..... SAMPLE RECEIVED: ...../...../..... NATA: YES/NO EXPRESS: YES/NO .....DAYS  
COURT CASE: YES / NO OTHER CHARGES: \$ ..... PAID: YES / NO

RETURN TESTED SPECIMENS TO CLIENT: YES/NO ..... RETURN REMAINING SAMPLE TO CLIENT: YES/NO .....  
SEND HARD COPY: YES/NO ..... EMAIL INVOICE TO: .....

CLIENTS REF: .....

DESCRIPTION: .....

NOMINAL COMPOSITION: .....

NOMINAL MASS PER UNIT AREA/DENSITY: ..... NOMINAL THICKNESS: .....

COLOUR: ..... END USE: .....

TESTING REQUIREMENTS: QUOTE NO: .....

COMPLIANCE REPORT: YES / NO COMPLIANCE TO: .....

No of Tests	Test Code	Method	Criteria	Description	Fees

SPECIAL INSTRUCTIONS: .....