# AWTA Product Testing

## **Test Information Sheet**

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

## Janka Hardness

## ASTM D1037, Clause 17

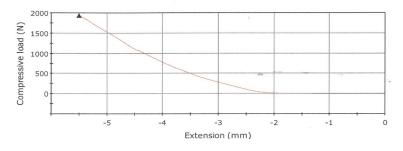
Damage caused by stiletto type heels or even fine legged furniture, can be a significant concern for consumers of high cost products such as flooring in both residential and commercial premises.

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







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
AWTA Product Testing
Level 1, 191 Racecourse Rd,

Flemington VIC 3031, Australia

Further information AWTA Product Testing Phone: (03) 9371 2400

Email: producttesting@awta.com.au

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



Australian Wool Testing Authority Ltd – trading as AWTA Product Testing A.B.N. 43 006 014 106

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#### **TEST REQUEST**

REPORT	CLIENT:			CONTACT PERSON:		
ADDRES	S:					
TELEPHONE NO:			EMAI	EMAIL ADDRESS:		
INVOICE THIS CLIENT: YES/NO			ORDE	ORDER NUMBER:		
CLIENT T	O BE INVOICED:					
IMPORTA	NT NOTE: That by	submitting sam	ples for testing <b>YOU</b>	AGREE that the resulting testing shall be performed under	our terms and	
				ttesting.com.au/index.php/about/terms-and-conditions	<del>our terms and</del>	
AUTHOR	ISED BY:			DATE:	/	
AWTA Ltd	d Use Only					
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				RETURN REMAINING SAMPLE TO CLIENT: YES/N		
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NOMINAL	MASS PER UNIT	AREA/DENSITY	<i>.</i>	NOMINAL THICKNESS:		
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SPECIAL	INSTRUCTIONS:					
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