

Australian/New Zealand Standard™

Reconstituted wood-based panels—Methods of test

Method 24: Resistance to cracking

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-005, Reconstituted Timber Panel Products.

This Standard is a revision of AS/NZS 4266.24:1996, with updated referenced document information.

METHOD

1 SCOPE

This Standard sets out a method for determining the resistance to cracking of melamine overlaid reconstituted wood-based panels.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

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| 4266 | Reconstituted wood-based panels—Methods of test |
| 4266.1 | Method 1: Sampling, cutting, and conditioning of test pieces |
| 4266.22 | Method 22: Porosity of laminated surface |
| 4491 | Timber—Glossary of terms in timber related Standards |

3 DEFINITIONS

For the purpose of this Standard, the definitions in AS/NZS 4491 and AS/NZS 4266.1 apply.

4 PRINCIPLE

Susceptibility to cracking is assessed by exposing a test piece, cut from the board or panel, to an accelerated ageing treatment involving exposure at high temperature.

5 MATERIALS AND APPARATUS

The following are required:

- (a) *Air-circulating oven*—capable of maintaining an internal temperature of $70 \pm 2^\circ\text{C}$.
- (b) *Timer*.

6 TEST PIECES

The test pieces shall be 250 mm × 250 mm.

7 PROCEDURE

The procedure shall be as follows:

- (a) The edges of the test piece shall be cut back by approximately 3 mm with a chamfer at an approximate angle of 45°.
- (b) Transfer the test piece to the oven, controlled at $70 \pm 2^\circ\text{C}$, and leave for 24 ± 0.5 h.
- (c) Remove the test piece from the oven and allow cooling at normal ambient conditions for 24 h. Examine the test piece on both surfaces for the presence and extent of any cracking.
- (d) Perform a porosity test as described in AS/NZS 4266.22 and examine the surface for micro cracks.

8 TEST REPORT

The test report shall contain the following:

- (a) Name and address of the testing laboratory.
- (b) Sampling report according to AS/NZS 4266.1.
- (c) Date of the test report.
- (d) Reference to this Standard, i.e., AS/NZS 4266.24.
- (e) Panel type and thickness.
- (f) Relevant product specification.
- (g) Surface treatment, if relevant.
- (h) Specific apparatus used, in case of different possibilities allowed in the Standard.
- (i) Test results as specified in Clause 7(d).
- (j) All deviations from this Standard.