

Certificate of Test

NE6800

REPORT No.: FNE10760

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AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: Arauco Ply
SPONSOR: Arauco Australia Pty Ltd
Level 6, 90 Mount Street
NORTH SYDNEY NSW
AUSTRALIA

DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as laminated Radiata pine plywood panels. The veneers are glued together using adhesive at an application rate of 200 g/m². The number of ply and ply thickness are:

6.5 mm: (3-ply: 2.5 mm thick each ply, before sanding);
12 mm: (5-ply: 2.5 mm thick each ply, before sanding);
18 mm: (7-ply: 2.5 mm-2.5 mm-3.1 mm-2.5mm-3.1mm-2.5mm-2.5mm, before sanding);
25 mm: (9-ply: 3.1 mm-2.5 mm-3.1 mm-2.5mm-3.1mm-2.5mm-3.1mm-2.5mm-3.1mm, before sanding).

Nominal thicknesses: 6.5 mm, 12 mm, 18 mm, 25 mm
Nominal density: 520 kg/m³
Colour: light brown (timber)

TEST PROCEDURE: Nine samples were tested in accordance with Australian Standard 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

OBSERVATION: Due to variable behaviour, nine specimens were tested, as required by Clause 2.8 of AS/NZS 1530.3:1999.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	6.9	0.1
Flame Spread Time (s)	29.3	1.8
Heat Release Integral (kJ/m ²)	193.8	8.7
Smoke Release (log ₁₀ D)	-1.255	0.085

For regulatory purposes these figures correspond to the following indices:


Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
13	8	7	3

The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

DATE OF TEST: 18 February 2013

Issued on the 1st day of March 2013 without alterations or additions.


Heherson Alarde
Testing Officer


Garry E Collins
Manager, Fire Testing and Assessments



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