

Australian/New Zealand Standard™

Adhesives for timber and timber products

Part 1: Adhesives for manufacture of plywood and laminated veneer lumber (LVL)



AS/NZS 2754.1:2016

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-011, Engineered Timber Products. It was approved on behalf of the Council of Standards Australia on 30 June 2016 and by the New Zealand Standards Approval Board on 2 June 2016.

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The following are represented on Committee TM-011:

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Australian Forest Products Association
Australian Timber Importers Federation
Australian Wood Panels Association
Building Research Association of New Zealand
Engineered Wood Products Association of Australasia
Forest and Wood Products Australia
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PREFACE

This Australian/New Zealand Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-011, Engineered Timber Products.

The objectives of this Standard are to—

- (a) provide the specifications for adhesives suitable for use in the plywood and laminated veneer lumber (LVL) manufacturing industry;
- (b) incorporate the technical content of AS 2754.1—1985, *Adhesives for timber and timber products*, Part 1: *Adhesives for plywood manufacture*;
- (c) include non-formaldehyde-based adhesives for use in non-structural, interior applications; and
- (d) develop the document as a Joint Australian/New Zealand Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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(LVL)

1 SCOPE

This Standard specifies requirements for adhesives suitable for use in the plywood and laminated veneer lumber (LVL) manufacturing industry, the criterion for suitability being the ability of an adhesive to produce bonded plywood and LVL products of defined types quality and durability under a range of exposure conditions and structural and non-structural conditions.

Table 1 provides details of the relationship between the standardized bond types A, B, C and D, the adhesive chemical type required for the bond type and the service conditions applicable to the four bond types. Pre-treatment requirements for each bond type are also specified in Table 1.

The Standard does not specify the bond test methods which are detailed in AS/NZS 2098.2. Test requirements for pH, non-volatile solids content, viscosity, gelation time and bond quality are also specified in the Standard.

2 NORMATIVE REFERENCES

The following documents are indispensable to the application of this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

- 2162 Verification and use of volumetric apparatus
2162.1 Part 1: General—Volumetric glassware
2244 Laboratory glassware—Test tubes

AS/NZS

- 2098 Methods of test for veneer and plywood
2098.2 Part 2: Bond quality of plywood (chisel test)
2245 Laboratory glassware—Filter funnels
4491 Timber—Glossary of terms in timber-related Standards

ASTM

- D5295 Standard test methods for evaluating drying or curing during film formation of organic coatings using mechanical recorders

IEC

- 647 pH measurement—Specification for pH scale (all Parts)
3145 Specification for laboratory pH meters

ISO

- 3696 Water for analytical laboratory use—Specification and test methods