

Australian/New Zealand Standard[®]

Methods of test for veneer and plywood

Method 8: Water absorption and thickness swelling of unpainted plywood

FOREWORD

Water absorption and thickness swelling of timber panel products are largely dependent on the species of timber. Determination for panels from random mixed species are therefore not informative. Because of this, the tests are mainly intended to establish specific species properties and the sample may have to be manufactured especially for the test. Sample production and selection is not covered by this method, but is assumed to follow standard plywood production procedure using an adhesive of sufficient water resistance to withstand the specified immersion.

Separate determination of edge and face absorption by painting the surfaces have been found unreliable because of cracking of paint films as a consequence of the swelling of the test pieces while being soaked. A differential mathematical approach has therefore been selected.

Acknowledgment is made of ASTM D1037, *Test methods for evaluating properties of wood-based fibre and particle panel materials*, on which this method of test is based.

METHOD

1 SCOPE This Standard describes the method for determining the water absorption through the face and edge of unpainted plywood, and the hygroscopic swelling resulting from the uptake of water.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
2289	Glossary of terms used in the plywood industry
O1	Glossary of terms used in timber Standards
AS/NZS	
2098	Methods of test for veneer and plywood
2098.1	Method 1: Moisture content of veneer and plywood
ISO 8402	Quality management and quality assurance—Vocabulary

3 DEFINITIONS For the purpose of this Standard the definitions in AS O1, AS 2289 and AS/NZS ISO 8402 apply.

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