Australian/New Zealand Standard™

Reconstituted wood-based panels—Methods of test

Method 14: Dimensional changes associated with changes in relative humidity

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-005, Reconstituted Timber Panel Products, to supersede AS/NZS 4266.14(Int):2001.

This Standard is equivalent to the industrial Standard harmonized between the wood panel industries in Australia, Japan and New Zealand, known as JANS 8.

METHOD

1 SCOPE

This Standard specifies a method for determining dimensional changes in reconstituted wood-based panels, due to climatic variations.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS
4266 Reconstituted wood-based panels—Methods of test
4266.1 Method 1: Sampling, cutting, and conditioning of test pieces
4266.3 Method 3: Moisture content
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

The equilibrium moisture content of panel products is dependent on the history of moisture change. Higher equilibrium moisture contents for any one relative humidity are achieved in desorption compared with absorption; this gives rise to a hysteresis effect.

In order to obtain the true dimensional change, relative humidity is measured between 65% relative humidity and 85% relative humidity in absorption and 65% relative humidity and 30% relative humidity in desorption.

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