



Australian Government

Assessment Requirements for FWPTMM4214 Test laminated wood product

Release: 1

Assessment Requirements for FWPTMM4214 Test laminated wood product

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has conducted two of the following tests on two samples of laminated wood product each:

- glue spread test
- shear test
- durability test.

In performing these tasks, the individual has:

- complied with workplace health and safety and environmental protection practices and/or procedures, including use of personal protective equipment (PPE) and safe disposal of waste materials
- complied with legislation, standards and codes of practice relevant to testing laminated wood product
- selected and calibrated equipment for testing operations
- collected, labelled and prepared samples
- conducted the tests
- recorded and reported test results
- analysed test results to assist with the identification of production problems
- recommended corrective actions, as required.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- key requirements of legislation, standards and codes of practice relevant to testing laminated wood product
- lamination requirements in the production of laminated timber products, including:

- lamination feedstock requirements – moisture content, dressing tolerance, grade, time since sawing or dressing, surface finish
- laminating requirements – glue storage, glue mix, glue spread, assembly time, clamp (press) time and pressure
- cure requirements – temperature, time, post-cure time
- influences on glue bond durability and strength
- glue spread requirements in laminated timber product processes, including:
 - effects of over and under glue spread on bond strength
 - frequency of glue spread tests
 - processes for conducting glue spread tests
 - glue spread rate is monitored and remedial action is taken
- test procedures and purpose for laminated timber product, including:
 - glue spread test
 - shear test
 - durability test
- failures in laminated timber product characteristics determined by test results, including:
 - glue failure
 - shallow wood fibre failure
 - wood fibre failure
 - sustainable load
 - breaking load – Modulus of Elasticity, Modulus of Rupture
- equipment for testing laminated wood product
- techniques and reasons for calibrating testing equipment for laminated wood product
- Australian Standards relevant to laminated wood products, including requirements for sampling and equipment set-up and calibration
- hazards associated with selection, labelling and physical testing of laminated wood product, including:
 - moving equipment
 - flying debris
 - rotating saw blades
- problems associated with testing process for laminated wood product, including:
 - calibration of test equipment
 - test accuracy
 - sample quality
 - faulty material
 - defects
- workplace procedures specific to sampling and testing laminated wood product, including:
 - health and safety, including isolation procedures, lock-outs, emergency stops, machine guarding and wearing of appropriate PPE
 - environmental protection, including disposing, recycling and reusing timber and other waste

- use of testing equipment
- sampling and testing processes
- communication reporting lines
- recording and reporting on test process and test results.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber product manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - laminated wood products
 - test equipment
 - personal protective equipment required for testing laminated wood product
- specifications:
 - workplace health and safety and environmental protection policies and/or procedures applicable to laminated wood product testing operations
 - workplace procedures for laminated wood product testing operations
 - workplace procedures for calibration of testing equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>