

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wood Products**

with type designation(s)
Metsä Wood uncoated and coated birch plywood

Issued to

**Metsäliitto Cooperative, Metsä Wood
Espoo, Finland**

is found to comply with
DNV GL class programme DNVGL-CP-0098 – Type approval – Plywood

Application :

For use as lining material in ships, e.g. cargo hold linings, fishing boat linings, wear resistant surfaces and easy to clean surfaces (lining products).

For use as decking materials in ships, e.g. car decks, carriage ramps, pedestrian bridges, factory floors, tank top linings, wear resistant surfaces and friction surfaces (decking products).

For areas without special fire technical requirements.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2020-03-03**

This Certificate is valid until **2025-03-02**.

DNV GL local station: **Finland CMC**

Approval Engineer: **Stefan Marion**

for **DNV GL**

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**Gustav Heiberg
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Metsä Wood uncoated and coated birch plywood:

Lining products

- **Metsä Wood Birch**, uncoated birch plywood (manufactured at all sites)
- **Metsä Wood Form**, phenol film overlaid birch plywood (manufactured at all sites)
- **Metsä Wood Flex**, polypropylene overlaid birch plywood (manufactured at Pärnu only)
- **Metsä Wood Flex Smooth**, ABS overlaid birch plywood (manufactured at Pärnu only)
- **Metsä Wood Integra Form**, Integra film overlaid birch plywood (manufactured at all sites)
- **Metsä Wood Phoenix**, aluminium foil overlaid birch plywood (manufactured at Pärnu only)

Decking products

- **Metsä Wood Birch**, uncoated birch plywood (manufactured at all sites)
- **Metsä Wood Deck**, phenol film overlaid birch plywood, rough wire mesh pattern (manufactured at all sites)
- **Metsä Wood Floor**, phenol film overlaid birch plywood, rough wire mesh pattern (manufactured at all sites)
- **Metsä Wood Granit Deck**, phenol film overlaid birch plywood, wire mesh pattern (manufactured at all sites)
- **Metsä Wood Granit Top**, phenol film overlaid birch plywood, raised round pattern (manufactured at Suolahti and Pärnu)
- **Metsä Wood Integra Deck**, Integra film overlaid birch plywood, wire mesh pattern (manufactured at all sites)
- **Metsä Wood Top**, phenol film overlaid birch plywood, raised round pattern (manufactured at Suolahti and Pärnu)
- **Metsä Wood Tuff MD**, polypropylene overlaid birch plywood, mini-diamond pattern (manufactured at Pärnu only)

Manufactured by

Metsä Wood, Suolahti birch plywood mill, Vaneritehtaankatu 1, P.O.Box 42, 44201 Suolahti, Finland
DNV GL local station: Turku

Metsä Wood, Punkaharju birch plywood mill, Tehtaantie 18, P.O.Box 11, 58501 Punkaharju, Finland
DNV GL local station: Turku

Metsä Wood, Pärnu birch plywood mill, Kase 17, Pärnu, 80047 Pärnu maakond, Estonia
DNV GL local station: Tallinn

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate

Application/Limitation

For use as lining material in ships, e.g. cargo hold linings, fishing boat linings, wear resistant surfaces and easy to clean surfaces.

For use as decking materials in ships, e.g. car decks, carriage ramps, pedestrian bridges, factory floors, tank top linings, wear resistant surfaces and friction surfaces.

Job Id: **262.1-033225-1**
Certificate No: **TAK00001V2**

For details regarding plywood panel sizes, please refer to the relevant product data sheets for the different products.

For strength and elasticity properties (according to EN 789 and EN 1058) please refer to Metsä Wood Birch Declaration of Performance (DoP) which may be downloaded from www.metsawood.com/dop.

Low Ignitability and Low Flame Spread properties have not been documented for the Metsä Wood and the plywood material is therefore intended for use in areas without special fire technical requirements.

If the plywood material shall be installed in areas where there are requirements to Low Ignitability and Low Flame Spread, such documentation shall be given by the manufacturer.

Quality Control contract between Eurofins Expert Services Oy and Metsä Wood to be maintained.

Any significant changes in design and/or quality of the material will render the approval invalid.

Type Approval documentation

Tests carried out

As per Quality Control contract with Eurofins Expert Services Oy. Bending strength and Modulus of elasticity measured in accordance with EN 310 and EN 789

Marking of product

Package shall be marked with *manufacturer's name, place of production and type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of the product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

The scope of the Periodical assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention and Certificate Renewal) shall be performed according to DNVGL-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnvgl.com>.

END OF CERTIFICATE