Certificate No:
TAK00000A5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wood Products
with type designation(s)
RIGA Tex,
RIGA Heksa Plus,
RIGA Rhomb,
RIGA Foot,
RIGA Trans
Issued to

Latvijas Finieris AS

RIGA, Latvia
is found to comply with
DNV GL class programme DNVGL-CP-0098 – Type approval – Plywood
DNV GL rules for classification – Ships

Application :

For use as decking material in ships, e.g. car decks, carriage ramps, pedestrian bridges, tank top linings, wear resistant surfaces, friction surfaces, vehicle floors, parking areas, storage floors, factory floors, work benches, storage shelves, loading platforms, ship decks, slip surfaces. 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.

This Certificate is valid until **2017-06-30**.

Issued at **Høvik** on **2016-05-19**
DNV GL local station: **Riga**
Approval Engineer: **Gisle Hersvik** for **DNV GL**

Arnstein Gloppen
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.

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Product description

Laminated birch plywood glued with phenol- formaldehyde resins, overlaid with phenol film on both faces or reverse face can be overlaid with a melamine or UV-resistant film.

Type designations:

- **RIGA Tex**
- **RIGA Heksa Plus**
- **RIGA Rhomb**
- **RIGA Foot**
- **RIGA Trans**

Test Standards	11 plies (15 mm)	13 plies (18 mm)	Units
Bending strength, longitudinal	EN 310	93.2	75.2	N/mm^2
Bending strength, transverse	EN 310	64.9	72.0	N/mm^2
Modulus of Elasticity, longitudinal	EN 310	9 520	8 677	N/mm^2
Modulus of Elasticity, transverse	EN 310	6 253	6 538	N/mm^2
Density	EN 323	730	715	kg/m^3

Type of gluing:

- EN 314 class 3
- BS 1203 class H4
- DIN 68705-3 class BFU/100

Place of production

"Latvijas Finieris" AS, **Mill Lignums**, Finiera iela 6, Riga LV-1016, Latvia

"Latvijas Finieris" AS, **Mill Furniers**, Bauskas iela 59, Riga LV-1004, Latvia

"Latvijas Finieris" AS, **Mill Verems RSEZ SIA**, Lejas Ančupani, Veremu pagasts, Rezeknes rajons LV-4604, Latvia

DNV GL local office: Riga

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 decking material in ships, e.g. car decks, carriage ramps, pedestrian bridges, tank top linings, wear resistant surfaces, friction surfaces, vehicle floors, parking areas, storage floors, factory floors, work benches, storage shelves, loading platforms, ship decks, slip surfaces.

For use in areas without special fire technical requirements.

For use in some of the application areas listed there may be requirements to fire technical properties. The material may be subject to approval w.r.t. fire technical properties and this will be evaluated in each individual case.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, including testing of: bending strength, modulus of elasticity (EN 310), shear strength of glue joint (EN 314-1), density (EN 323), thickness of veneers, number of plies.

Marking of product

Package shall be marked with *manufacturer's name*: **"Latvijas Finieris" AS, Latvia** and *type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of 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 Assessment to be performed after 2 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.

- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE