



Riga Wood
Latvijas Finieris Group



Riga Silent

Riga Silent is a birch throughout plywood composite panel with sound reduction material core, designed to provide improved sound insulation and absorb vibrations.

Applications

Riga Silent is a perfect solution for applications that require increased sound insulation, high strength and elasticity – the panel is ideally suited for end uses where lightweight but strong construction is required.



RAIL TRANSPORT
Passenger wagons
Cargo wagons



ROAD TRANSPORT
Buses



SEA TRANSPORT
Yachts & Boats

Major advantages

Good sound absorption and noise insulation properties Improved damping of vibration Withstands large mechanical loads, excellent strength-to-weight ratio High quality durable surface with various overlaying possibilities Good machining qualities with conventional woodworking equipment Sustainable product with long life span

Face options

Riga Silent can be combined with most other Riga brands, either uncoated or overlaid. Depending on the overlay used, abrasion, crack, UV resistance and other different properties can be achieved. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Airborne sound insulation

Airborne sound insulation according to EN ISO 717, 31 dB (100-3150 Hz) and higher.

Further processing

Panels can be further processed according to customer's specification with: cut-to-size, CNC, drilling, milling, jointing, edge machining, and assembling in sets.

Surface properties

For Riga Silent either uncoated or coated panels can be used. Riga Ply is sanded on both faces, suitable for a variety of finishes. Overlaid, film faced or coated panels surfaces improve panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals and is weather and moisture resistant.

Base plywood

Composite panel made of 1.45 mm cross-bonded birch veneer and 2 or 3 mm sound insulation material. Customised constructions available upon request.

Edge sealing

The edges can be sealed upon request.

Panel sizes

1220 / 1250 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660 mm
1500 / 1525 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660 mm

Standard thicknesses

Riga Silent thickness	Thickness of sound insulation material	Plywood thickness (the upper layer)	Plywood thickness (the lower layer)
15 mm	2 mm	6.5 mm	6.5 mm
16 mm	3 mm	6.5 mm	6.5 mm
18 mm	2 mm	6.5 mm	9 mm
21 mm	3 mm	9 mm	9 mm

Other plywood and sound insulation material core thicknesses upon request.

Riga Silent

Gluing classes

Riga Wood birch plywood is glued with weather and boil-proof phenol formaldehyde or lignin phenol formaldehyde resin adhesive according to EN 314/Class 3 Exterior.

The cork/rubber insert is bonded using a combination of melamine-urea-formaldehyde (MUF) adhesive with hardener intended for end-uses, where high water and weather resistance is needed.

Formaldehyde emission

Riga Wood birch plywood formaldehyde emission level is significantly below EN 13986 Class E1 and complies with EPA TSCA Title VI and CARB Phase 2.

Fire classes/resistance

Fire performance is in accordance with EN 45545-2 R10: HL1 to HL3 for Railway industry. Particular product classification available on request.

Tolerance

Parameter	Tolerance
Length, width (mm) < 1000	± 1 mm
Length, width (mm) – 1000..2000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	± 1 mm/m
Edge straightness	± 1 mm/m

Size, squareness and thickness tolerances fulfil the requirements of EN 315.

Customised tolerances available on request.

Sustainability

We strongly believe that wood-based products in industrial use are a great option for carbon storage and a big part of the solution to achieve climate change mitigation. The key principles of sustainability and responsible governance are deeply rooted in our company's traditions and we aim to further develop our initiatives by actively engaging with stakeholders, material suppliers and clients.

Storage

Plywood must be stored in a well ventilated, weather protected area with the panels stacked both horizontally and level.

Additional information is available in the Riga Wood plywood handbook:
<https://www.finieris.com/en/downloads/brochures>

The provided information is for reference only and Riga Wood reserves the right to amend and supplement the specifications of manufactured products without prior notice. Wood is a living material; therefore, each panel is unique and minor differences are possible. Riga Wood does not guarantee a product's compliance with the requirements of any specific purpose.