

Riga Composite

Riga Composite combines birch throughout plywood with high-quality coating or core materials to improve mechanical properties and/or visual appearance for a variety of end uses.

Applications

Riga Composite has been developed in partnership with customers to find product solutions that meet their specific needs.



ROAD TRANSPORT

Light & Heavy trailers
Speciality trailers
Light commercial vehicles
Passenger cars



RAIL TRANSPORT

Passenger wagons



LIGHT BUILDING

Joinery, furniture & Shopfittings



SEA TRANSPORT

Yachts & Boats

RIGA COMPOSITE TPO

Major advantages

- Durable and wear resistant surface
- Optimal anti-slip surface ensuring safety underfoot
- Elastic and crack resistant
- Commonly used chemical and UV resistant, easy to clean for repeated uses
- Aesthetic and visually attractive

Overlying

Riga Composite TPO is overlaid with grey (RAL 7000), thermoplastic, textured polyolefin overlay (density 167 g/m²). Different embossing and colours available upon request.

Surface properties

The elastic and crack resistant surface has good mechanical durability.

RIGA COMPOSITE PPL

Major advantages

- High quality faces, available in a variety of colours
- Improved impact and crack resistant faces for both indoor and outdoor use
- Durable, wear and UV resistant finish
- Excellent strength-to-weight ratio
- Weather resistant gluing and water resistant surface

Overlying

Riga Composite PPL is overlaid with a slightly textured polypropylene overlay. For indoor use 0.15 mm and for outdoor use 0.65 mm is recommended. Overlays available in grey (RAL 7045), white (RAL 9016) or black (RAL 9005).

Surface properties

The slightly structured surface has an improved scratch and abrasion resistance and good anti-crack properties.

RIGA COMPOSITE ALU

Major advantages

- Heat insulating and air-tight surface
- Aluminium core provides exceptional strength and rigidity
- Specific properties depend on the aluminium finish specified

Overlying

Riga Composite ALU is constructed with an aluminium surface or core.

Surface properties

The surface has bright and smooth or embossed finishing, providing both outstanding mechanical properties and visual appearance.

Further processing

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

Riga Composite

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

Riga Wood experts will advise the most appropriate overlay and core material depending on the end use.

Standard thicknesses

Plywood panel nominal thicknesses are 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm.

To the indicated values, composite material thickness should be added.

Tolerance


Nominal thickness, mm	4	6.5	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	3	5	7	9	11	13	15	17	19	21	25	29	32	35
Lower limit, mm	3.5	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6	38.4	43.3	48.1
Upper limit, mm	4.1	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4	41.2	46.4	51.5

Moisture content affects plywood dimensions; indicated sizes and thicknesses relate to a moisture content $9 \pm 3\%$.

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.

 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.

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.

Bonding with moisture resistant low emission melamine-urea-formaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

The chosen finish is bonded with 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.

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.