



Riga Wood 
Latvijas Finieris Group



Riga Combi

Riga Combi is a plywood composed of birch and alder veneer, available as Riga Ply Combi, Riga Form Combi and Riga Tex Combi.

Applications



HEAVY BUILDING



LIGHT BUILDING

Major advantages

- Weather resistant gluing and water resistant surface
- Resistant to commonly used chemicals and surface impact
- Easy to clean for repeated uses
- User and environmentally friendly
- Hygienic
- Can be reused for shuttering many times.

Construction

Plywood is composed of 1.45 mm birch ("**/**" – **cross grain**; "**-**" – **long grain**) and 1.45 mm alder ("**f**" – **cross grain**) veneers by cross bonding in accordance with the following lay-up scheme:

15 mm /-f-f-f-f-f-;

18 mm /-f-f-f-f-f-f-;

21 mm /-f-f-f-f-f-f-f-.

Overlying

Uncoated or overlaid with resin impregnated film, which is hot-pressed onto the sheet surface.

- Riga Ply Combi – WG grade plywood
- Riga Form Combi – overlaid with dark brown phenol film (120, 220 g/m²)
- Riga Tex Combi – overlaid with a phenol film with a rough wire mesh pattern (120, 220 g/m²)

Abrasion resistance according to the Taber test (EN 438-2): depends on applied film, conditions of product storage and application.

Dark brown 120 g/m² up to 400 revolutions

Dark brown 220 g/m² up to 900 revolutions

Edge sealing

Edges sealed with orange (RAL 1007) acrylic paint.

Film colour

Based on phenolic resin:

- Dark brown (120, 220 g/m²)

Gluing classes

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

Formaldehyde emission

Riga Wood plywood formaldehyde emission level is significantly below EN 13986 Class E1 and complies with new REACH Formaldehyde Restriction Regulation EU 2023/1464, EPA TSCA Title VI and CARB Phase 2.

Compliance to REACH

Riga Wood birch plywood meets all the requirements of the REACH Regulation. It does not contain SVHC (Substances of Very High Concern) listed on the REACH candidate list for authorisation exceeding concentration 0.1 % by weight.

Panel sizes

1250 mm × 2500 mm

1500 mm × 3000 mm

Standard thicknesses

15, 18, 21 mm

Other thicknesses available on request

Riga Combi

Tolerance

Nominal thickness, mm	15	18	21
Number of plies	11	13	15
Lower limit, mm	14.3	17.1	20
Upper limit, mm	15.3	18.1	20.9

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.

Average density

670 kg/m³

Plywood lower limit values of bending strength and stiffness

Nominal thickness, mm	Along the grain		Perpendicular to the grain	
	Strength, N/mm ²	Modulus of elasticity, N/mm ²	Strength, N/mm ²	Modulus of elasticity, N/mm ²
15	45	6300	45	4500
18	45	6300	45	4500
21	45	6300	45	4500

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.

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.