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Riga Color

Riga Color is a birch throughout plywood with an industrial solid color finish on one or both faces.

Applications

Riga Color is a high quality, decorative, solid coloured panel with a smooth semi gloss surface and improved surface properties suitable for civil projects and interior industrial applications.



LIGHT BUILDING

Decorative wall & Ceiling linings Joinery, furniture & Shopfittings

Major advantages

 Durable decorative surface with semi-gloss finishing ensures a long lasting and crack resistant surface
 Ready-to-use surface, representing a substantial time and cost saving
 Designed for indoor applications
 Surface is resistant to commonly used chemicals, surface impact, and is easy to clean
 Sustainable product with long life span

Further processing

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

For applications where insulation and acoustic performance are required, perforated and grooved acoustic panels are possible. More information is available in the Acoustic panel leaflet.

Coating and surface properties

Overlaid with a painting film, which forms a base for an industrial CC-INT painting system. Reverse face can be offered with the same painting film, phenol film or raw plywood in various grades. Painting system applied:

CC-INT – acid and solvent based two compound uni colour. Gloss level from 35 to 40 gloss units (at G60° according to ISO 2813). The surface is homogeneous and even.

Riga Color can be coated with epoxy paint to form a smooth, durable and long-lasting surface for a variety of industrial end uses.

Edge sealing

The edges can be sealed upon request.

Panel sizes

- 1220 / 1250 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 mm
- 2440 / 2500 mm x 1220 / 1250 mm

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Riga Color

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24
Number of plies	5	7	9	11	13	15	17
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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



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Riga Decor

Riga Decor is a birch throughout plywood veneered on one or both faces with various noble wood surfaces for a decorative appearance, depending on customer requirements and intended use.

Applications

Riga Decor is designed for interior applications, where both functionality and decorative finishing are needed.



LIGHT BUILDING

Decorative wall & Ceiling linings Joinery, furniture & Shopfittings

SEA TRANSPORT Yachts & Boats

Major advantages

Decorative appearance with a wide range of high-quality, noble wood surfaces
 Durable, smooth and ready to use surface
 Sound properties can be significantly improved using perforated and grooved panels
 Low volatile organic compounds (VOC), including formaldehyde emissions
 Very good screw holding properties, easily workable
 Sustainable product with long life span

Further processing

Riga Decor can be further processed according to customer's specification with: cut-to-size, CNC, drilling, milling, jointing, edge machining, assembling in sets, and/or sanded and lacquered. For applications where insulation and acoustic performance are required, perforated and grooved acoustic panels are possible. More information available in the Acoustic panel leaflet.

Veneering

Veneering is usually done with 0.55 mm thick unsanded rotary cut veneers (radial and tangent end type), as well as peeled veneers. Wide range of face and back veneers available: birch, beech, European ash, European oak and pine. Other species and customised thicknesses available on request. Veneer quality is selected according to the customer's requirements.

Grades for overlaying

BB/BB grade based Riga Ply veneered with slice veneer grading (A, AB, B) based on customer request.

Surface properties

Surface is smooth and dense with a beautiful natural wood structure. Available both as uncoated or with a clear lacquer.

Edge sealing

The exposed multi-ply edges provide a unique design element and can be sealed or lacquered upon request.

Panel sizes

• 2440 / 2500 / 3050 mm x 1220 / 1250 / 1500 / 1525 mm

Standard thicknesses

4, 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm To the indicated values, decorative veneer and/or balance paper (0.2 mm) thicknesses should be added.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

The decorative veneer is bonded with a combination of melamineurea-formaldehyde (MUF) adhesive and hardener intended for enduses where water and weather resistance is required.

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.

Splicing techniques

Both sliced and peeled veneers of tangential/radial section may be used applying different jointing techniques. Standard jointing book match + 180°, custom layups available upon request.

Riga Decor

Tolerance

Dimensional and squareness 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) ≤ 500	± 0.5 mm
Length, width (mm) – 5002000	±1mm
Length, width (mm) > 2001	± 2 mm
Max difference of diagonals ≤ 500	± 0.5 mm
Max difference of diagonals – 5002000	±1mm
Max difference of diagonals > 2001	± 2 mm
Edge straightness	±1mm/m

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

Customised tolerances available on request.

Sustainability

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Storage

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



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Riga Dot is a birch throughout plywood, overlaid with a hard wearing film with a unique glossy dotted pattern, combining both functionality and an aesthetic visual appearance.

Applications

Riga Dot is a durable panel for applications, where highly decorative surfaces in a variety of colours are required.



LIGHT BUILDING

Decorative wall & Ceiling linings Joinery, furniture & Shopfittings Stage systems



PACKAGING High-end packaging

Major advantages

High wear resistance, durable and heavy-duty surface
Aesthetic and visually attractive
Excellent strength-to-weight ratio
Weather resistant gluing and water resistant surface
Surface is resistant to commonly used chemicals and surface impact, easy to clean
Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film which is hot-pressed onto the sheet surface, using special dotted pattern press plates on one side. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied and performance further enhanced with multiple overlays.

Surface properties

The dotted pattern overlay provides a decorative appearance. The surface resists abrasion, commonly used chemicals, and is weather and moisture resistant. It can be easily cleaned with water or steam. The reverse side is smooth, overlaid with resin impregnated film. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 2,500 revolutions depending on the coating.

Film colour



Film weights from 120 g/m² to 660 g/m². *With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

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-formal dehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

Riga Dot

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.

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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









Riga Foot

Riga Foot is a birch throughout plywood, overlaid with a hard wearing film with a unique footprint pattern, combining both functionality and an aesthetic visual appearance.

Applications

Riga Foot is a durable panel for demanding flooring applications; it will be used anywhere high wear resistance, anti-slip properties and decorative appearance are required.



ROAD TRANSPORT

Light & Heavy commercial vehicles Light & Heavy trailers Buses

LIGHT BUILDING

Stage systems & Industrial flooring Joinery, furniture & Shopfittings Outdoor solutions

HEAVY BUILDING

Scaffolding

Major advantages

 Abrasive surface ensures underfoot safety and a safe surface for freight transport
 Weather resistant gluing and water resistant surface
 Excellent strength-to-weight ratio
 Durable and heavy-duty
 Surface is resistant to commonly used chemicals and surface impact, easy to clean
 Aesthetic and visually attractive
 Surfaciable acoduct with long life acon

Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, during the coating process a unique footprint pattern is hot-pressed onto the sheet surface. Depending on the application, films impregnated with unmodified or modified phenolic or melamine resins are applied.

Surface properties

The overlay improves panel resistance against mechanical damage and wear, whilst providing a decorative appearance. The surface resists abrasion, commonly used chemicals, and is weather and moisture resistant. The reverse side is smooth, overlaid with resin impregnated film.

Wear resistance

Rolling test (EN 1818) more than 10,000 cycles depending on the coating. Rolling wear is tested with a load of 300 kg.

Taber test (EN 438-2) up to 10,000 revolutions depending on the coating.

Dark brown 220 g/m² up to 900 revolutions Special wear resistant film 350 g/m² up to 10,000 revolutions

Slip resistance

Anti-slip resistance class R10 according to DIN 51130.

Film colour

Film weights from 120 g/m² to 660 g/m². *With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Riga Foot

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

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.

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	± 1 mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	± 1 mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.



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Riga Form

Riga Form is a birch throughout plywood, overlaid on both faces with specially designed films for intensive, heavy-duty uses.

Applications

Riga Form is a durable birch plywood designed for intensive heavy-duty use in the formwork sector with as many as 80 reuses possible. Thanks to its excellent mechanical properties and range of colours, Riga Form can be used in various other industries as well.



HEAVY BUILDING

Formwork systems Loose shuttering Precasting Scaffolding



ROAD TRANSPORT Light & Heavy commercial vehicles Buses

LIGHT BUILDING Industrial wall & Ceiling linings



PACKAGING INDUSTRY Die boards

RAIL TRANSPORT Passenger & Cargo wagons

Major advantages

Withstands large mechanical loads – excellent weight to strength ratio
 Weather resistant gluing and water resistant surface
 Cost efficient and easily workable with long life span
 Smooth finish and sealing, resulting in substantial time and cost saving
 Variety of standard sizes, cut-to-size and scarf-jointed panels available
 Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses
 Sustainable product

Further processing

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

Overlaying

Overlaid with resin impregnated film, which is hot-pressed onto the sheet surface, ensuring a smooth and protected surface. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied. To enhance the product properties, it is possible to use multi-layer film.

Both customised logo printing and custom printed films available.

Surface properties

Surface is smooth, glossy and dense, improving panel resistance against mechanical damage and wearing. It resists abrasion, commonly used chemicals and is weather and moisture resistant. The surface can be easily cleaned with water or steam. Depending on the film used, abrasion, crack, UV resistance and other surface properties can be customised. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 10,000 revolutions depending on the coating.

Dark brown 120 g/m² up to 400 revolutions Dark brown 220 g/m² up to 900 revolutions Special wear resistant film 350 g/m² up to 10,000 revolutions Dark brown 440 g/m² up to 2,500 revolutions

Film colour

Based on phenolic resin:



Film weights from 120 g/m² to 660 g/m². Special wear resistant film available.

*With BB grade veneer under these translucent films.

Riga Form

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available 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
- 1830 / 1850 mm x 3050 / 3340 / 3660 / 3850 mm
- 2150 mm x 3050 / 3340 / 3850 / 4000 mm
- 2290 mm x 4000 mm
- 2440 / 2500 mm x 1220 / 1250 mm

Standard thicknesses

4, 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm Other thicknesses available on request.

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) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

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Additional information is available in the Riga Wood plywood handbook:

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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-formal dehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.





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Riga Frost

Riga Frost is a birch throughout plywood, overlaid with a hard wearing film with a special slightly textured pattern, combining durability, functionality and a decorative visual appearance.

Applications

Riga Frost is a durable panel for applications where a smooth, matte surface texture and functional appearance are required.



LIGHT BUILDING

High-end flooring Joinery, furniture & Shopfittings Stage systems



ROAD TRANSPORT Passenger cars Light commercial vehicles



PACKAGING

High-end packaging for flight cases

Major advantages

- Aesthetic and visually attractive smooth matte surface structure
- Architecturally multifunctional use
 Matte surface diffuses/breaks reflection of light
 Excellent strength-to-weight ratio
 Weather resistant gluing and water resistant surface
 Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses
 Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, which is hot-pressed onto the sheet surface, using special press plates on one side. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied and performance further enhanced with multiple overlays.

Wear resistance

Taber test (EN 438-2) up to 2,500 revolutions depending on the coating.

Film colour

Based on phenolic resin:

dark brown
 light brown*
 yellow
 Based on melamine resin:
 silver grey
 light grey
 white

Film weights from 120 g/m² to 440 g/m². *With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Riga Frost

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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.



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Riga Heksa, Heksa Plus

Riga Heksa Plus and Riga Heksa are birch throughout plywoods, overlaid with a hard wearing film with a special hexagonal pattern, combining both functionality and aesthetic visual appearance.

Applications

Riga Heksa Plus and Riga Heksa are durable panels for demanding applications, they can be used anywhere heavy-duty, high wear resistant and decorative appearance are required.



ROAD TRANSPORT

Light & Heavy commercial vehicles Light & Heavy trailers Buses, Vans



LIGHT BUILDING

Stage systems & Industrial flooring Joinery, furniture & Shopfittings



HEAVY BUILDING Scaffolding

Major advantages

- High wear resistance and anti-slip surface ensuring safety
- underfoot Weather resistant gluing and water resistant surface • Excellent strength-to-weight ratio • Durable and heavy-duty
- Surface is resistant to commonly used chemicals and surface
- impact, easy to clean for repeated uses Aesthetic and visually attractive Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, during the coating process a hexagonal pattern is hot-pressed onto the sheet surface. Depending on the application, films impregnated with unmodified or modified phenolic or melamine resins are applied.

Surface properties

The hexagonal pattern overlay improves panel resistance against mechanical damage and wear, whilst providing a decorative appearance. The surface resists abrasion, commonly used chemicals and is weather and moisture resistant. The reverse side is smooth, overlaid with resin impregnated film.

Wear resistance

Rolling test (EN 1818) more than 10,000 cycles depending on the coating. Rolling wear is tested with a load of 300 kg.

Taber test (EN 438-2) up to 10,000 revolutions depending on the coating. Dark brown 120 g/m² up to 400 revolutions

Dark brown 220 g/m² up to 900 revolutions Special wear resistant film 350 g/m² up to 10,000 revolutions Dark brown 440 g/m² up to 2,500 revolutions

Slip resistance

Riga Heksa: anti-slip resistance class R9 according to DIN 51130.

Riga Heksa Plus: anti-slip resistance class R10 according to DIN 51130.

Film colour

Based on phenolic resin:



Film weights from 220 g/m² to 440 g/m². Special wear resistant film available. *Available for Riga Heksa Plus

Riga Heksa, Heksa Plus

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

- 1220 / 1250 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 mm •
- 1500 / 1525 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 mm
- 1830* / 1850* mm x 3050 / 3340 / 3660 / 3850 mm .
- 2150* mm x 3050 / 3340 / 3850 / 4000 mm •
- 2290* mm x 4000 mm

2440 / 2500 mm x 1220 / 1250 mm

*Available for Riga Heksa Plus

Standard thicknesses

4, 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40*, 45*, 50* mm *Available for Riga Heksa Plus

Tolerance

Nominal thickness, mm 4 6.5 9 12 15 18 21 24 27 30 35 40* 45 50% 3 5 7 9 Number of plies 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

*Available for Riga Heksa Plus

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

Sustainability

Gluing classes

possible.

CARB Phase 2.

to EN 314/Class 3 Exterior.

Formaldehyde emission

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.

Riga Wood birch plywood is glued with weather and boil-proof phenol

formaldehyde or lignin phenol formaldehyde resin adhesive according

formaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1

Riga Wood birch plywood formaldehyde emission level is significantly

below EN 13986 Class E1 and complies with EPA TSCA Title VI and

Bonding with moisture resistant low emission melamine-urea-

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.



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Riga HPL

Riga HPL is a birch throughout plywood, overlaid with CPL or HPL laminates on one or both faces, for decorative and/ or heavy-duty applications.

Applications

Riga HPL birch plywood is a durable plywood for applications where high-wearing and decorative surfaces in a variety of colours and structures are required.



LIGHT BUILDING Joinery, furniture & Shopfittings



ROAD TRANSPORT

Passenger cars Light commercial vehicles

Major advantages

 Decorative finishing with ready to use surface in a variety of designs and colours
 Special anti-fingerprint feature available for furniture
 Water and moisture resistant surface
 Highly scratch and shatter resistant
 High wear resistance and durable
 Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses
 Sustainable product with long life span

Further processing

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

For applications where insulation and acoustic performance are required, perforated and grooved acoustic panels are possible. More information available in the Acoustic panel leaflet.

Overlaying

CPL (continuous-pressure laminates) and HPL (high-pressure laminates) made of layers of kraft paper impregnated with resins (the core) and decorative melamine impregnated paper (the surface layer), manufactured under high pressure and temperature.

Surface properties

The CPL and HPL coating offers a highly durable, scratch resistant and decorative surface in different colours (uni, white, wood reproductions, material reproductions) and various surface structures. Standard CPL and HPL thickness 0.6 - 1 mm, protective foil is applied. Different surface properties can be achieved, depending on the CPL or HPL used. For more specific information, overlay material data sheets available on request.

Edge sealing

The edges are sealed upon request with special or transparent colour.

Panel sizes

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

Other sizes may be available based on CPL / HPL formats.

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, CPL or HPL thicknesses should be added.

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-formal dehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

The overlays are bonded using a combination of melamine-ureaformaldehyde (MUF) adhesive with hardener intended for end-uses, where high water and weather resistance is needed.

Riga HPL

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	5	7	9	11	13	15	17	19	21	25	29	32	35
Lower limit, mm	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	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

To the indicated values, CPL or HPL thicknesses should be added.

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	±2mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

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.



Additional information is available in the Riga Wood plywood handbook:

https://www.finieris.com/en/downloads/brochures



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Riga Lacquer

Riga Lacquer is a birch throughout plywood with a lacquered surface finish on one or both faces.

Applications

Riga Lacquer is a high quality decorative panel for interior applications, with a naturally beautiful wooden structure and improved surface properties suitable for civil projects as well as industrial end uses.



LIGHT BUILDING

Decorative wall & Ceiling linings Joinery, furniture & Shopfittings



ROAD TRANSPORT

PACKAGING

Die boards

Buses Passenger cars

Major advantages

Durable decorative surface with gloss or matte finishing
Naturally beautiful wood appearance
Wide range of different coloured lacquers
Flame reaction decreasing lacquering system available
Ready to use surface panel representing substantial time and cost saving
Surface is resistant to commonly used chemicals and surface impact, easy to clean
Sustainable product with long life span

Further processing

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

For applications where insulation and acoustic performance are required, perforated and grooved acoustic panels are possible. More information available in the Acoustic panel leaflet.

Coating and surface properties

Different lacquering systems are available on request:

- LC: acid catalysed solvent based
- LPU: acrylic-based polyurethane
- LUV: UV curing
- FRC: water-based flame retardant

Standard semi-gloss finishing with 25 gloss units, from 5 to 45 gloss units available on request (at G60° according to ISO 2813). Colour: by default transparent colour. Pigmented/coloured lacquering systems available on request.

Edge sealing

The edges can be sealed upon request.

Panel sizes

- 1220 / 1250 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 mm
- 1500 / 1525 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050* mm
- 2440 / 2500 mm x 1220 / 1250 mm
- * Available for Riga Lacquer LUV

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24 mm Other thicknesses available on request.

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-formal dehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

Formaldehyde emission

Riga Lacquer birch plywood formaldehyde emission level is significantly below EN 13986 Class E1.

Base plywood

Riga Lacquer with optically good peeled veneer in S (II) and BB (III) grade (according to the requirements of EN 635) and as well as on Riga Decor with slice veneer surfaces in birch, oak, ash, beech, and others.

Riga Lacquer

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24
Number of plies	5	7	9	11	13	15	17
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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



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Riga Mel

Riga Mel is a birch throughout plywood, overlaid with melamine film on one or both faces, combining durability and aesthetic appearance.

Applications

Riga Mel has a long-lasting surface with visually design-orientated appearance for architectural requirements and industrial end uses.



LIGHT BUILDING

Joinery, furniture & Shopfittings Industrial wall & Ceiling linings



ROAD TRANSPORT

Heavy & Speciality trailers Heavy & Light commercial vehicles



PACKAGING Die boards

SEA TRANSPORT Cargo ships Yachts & Boats

Major advantages

- High quality, hygienic and odour free surface Increased scratch and crack resistance • Architecturally multifunctional use • Weather resistant gluing and water resistant surface • High wear resistance and durability • Surface is resistant to commonly used chemicals, UV rays and surface impact, easy to clean for repeated uses
- Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with modified melamine resin-based film, which is hotpressed onto the sheet, ensuring smooth and protected surface. Reverse face can be overlaid with phenol film if necessary.

Surface properties

Surface is smooth, glossy and dense, improving panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals, is moisture proof, and the surface can be easily cleaned.

Film colour

White film weight of 395 g/m², colourless 120 g/m² and opal white 120 g/m².

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available 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
- 2440 / 2500 mm x 1220 / 1250 mm

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

Riga Mel

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	5	7	9	11	13	15	17	19	21	25	29	32	35
Lower limit, mm	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	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	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

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.



Additional information is available in the Riga Wood plywood handbook:

https://www.finieris.com/en/downloads/brochures





Riga Poliform

Riga Poliform is a birch throughout plywood, overlaid with a high performance and highly durable wood-plastic composite (WPC) material.

Applications

Riga Poliform is a specialty formwork panel with superb mechanical properties and is designed to last longer with as many as 300 uses dependant on specific end use and site practice.

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HEAVY BUILDING Formwork systems Precasting

Major advantages

- Tough and impact resistant surface for smooth concrete finish
- No rippling As many as 300 reuses when correctly installed

Recycled wood fibres utilised in the wood-plastic overlay
 Water resistant surface and weather resistant gluing
 Surface is resistant to commonly used concrete release agents, diluted acids and alkalis, easy to clean with water or steam for repeated uses
 Special solutions are available for applications requiring a higher surface elasticity such as nailing
 Easy to machine and fix on site
 Variety of standard sizes, cut-to-size and jointed panels available
 Sustainable product with long life-span

Further processing

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

Coating

The composite material is made of wood fibres and polypropylene, overlay thickness 0.8 mm or 1.6 mm. The coating covers both faces, upon request it is possible to coat the reverse side with film.

Two coating types available:

WPC SP1 - high surface hardness for durability

WPC SP2 – higher surface elasticity for nailing applications

Surface properties

The wood-plastic composite coating offers a highly durable, hard and dense surface, increasing panel resistance against mechanical damage and wearing. It resists concrete release agents, cement alkalis and other corrosive chemicals.

The panels can be used within a temperature range from -40 °C up to +80 °C. Cold temperatures can reduce WPC flexibility making it less suitable for nailing. After use, panels release well and maintain their performance for a long time.

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

Wear resistance

Surface hardness (Shore D Durometer) for WPC SP >72 HD; WPC SP2 >62 HD

Taber test (EN 438-2) up to 17,000 revolutions

Film colour

The standard colour is matt grey, other colours – blue, green, yellow, red, natural (without colour pigment).

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available 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

9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm Other thicknesses available on request.

Riga Poliform

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 overlay is bonded with a combination of melamine-ureaformaldehyde (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.

Tolerance

Nominal thickness, mm	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	5 + 2×WPC	7 + 2×WPC	9 + 2×WPC	11 + 2×WPC	13 + 2×WPC	15 + 2×WPC	17 + 2×WPC	19 + 2×WPC	21 + 2×WPC	25 + 2×WPC	29 + 2×WPC	32 + 2×WPC
Lower limit, mm	9.3	12	14.7	17.5	20.3	23.2	26.1	29	31.9	36.8	41.6	46.5
Upper limit, mm	10.1	12.7	15.7	18.5	21.3	24.1	26.9	30	33.1	38.6	44.4	49.6

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	±2 mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

Size and squareness 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



Riga Poliform Good Site Practice

Storage

- Plywood must be stored in a well-ventilated, weather-protected area with the panels stacked both horizontally and level.
- Direct sunlight should be avoided as well.
- Riga Poliform should be acclimatised to local environmental conditions prior to installation. During acclimatisation, plywood absorbs air humidity which helps minimise swelling.

Formwork preparation

- The number of re-uses depends on correct handling, preparation, installation, and good site practice in general.
- Riga Poliform edges are sealed with moisture-resistant paint to reduce water absorption, and following any on-site cutting or machining, all exposed edges should be thoroughly sealed with moisture-resistant paint.
- To achieve the maximum number of re-uses, face damage should be avoided. Therefore, using screws and nails is not recommended.
 Where face fixing is unavoidable, screws, rather than nails, are recommended to avoid damaging the WPC overlay and allowing water penetration.
- The release agent must be used in accordance with the suppliers' recommendations – incorrect application may have a detrimental effect to the concrete finish.
- The panels can be used within a temperature range of -40 °C up to +80 °C. Cold temperatures may impact WPC surface hardness, making it unsuitable for nailing.

- Since moisture may affect plywood dimensions, it is recommended that joints are sealed with a silicone filler.
- Concrete surface colour may vary over a panel's lifetime.
- Long-term direct sunlight may damage the Riga Poliform faces and should be avoided – UV damage to the surface can appear on the finished concrete face.

After use

- Proper care and maintenance of panels increases the number of uses.
- Riga Poliform should be cleaned immediately after use, and panels should be re-oiled before each subsequent cycle.
- Panel repair is possible with suitable fillers or plugs.

Recycling

- At the end of their lifespan, Riga Poliform panels should be disposed of according to local legislations.
- All Riga Wood plywood packaging should be recycled in the appropriate waste stream.

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Riga Preprime, Paint

Riga Paint and Riga Preprime are birch throughout plywoods, designed for long-lasting and easy painting. Riga Paint is overlaid with a painting film for further priming or painting, while Riga Preprime is overlaid with a preprimed painting film and is ready for final coating.

Applications

The crack resistant surface is the perfect base for a straight forward painting process with a long-lasting finish for both interior and exterior applications.



LIGHT BUILDING

Decorative wall & Ceiling linings Outdoor solutions Joinery, furniture & Shopfittings



ROAD TRANSPORT

Light & Heavy trailers Light & Heavy commercial vehicles



SEA TRANSPORT Yachts & Boats

Major advantages

• Ensures a solid and crack resistant base for painting • Readyto-paint with final coating surface • Suitable both for interior and exterior applications • Quick and easy to paint whilst reducing paint consumption • Suitable for most commercial paint types • Outstanding paint adhesion with even paint finish • Sustainable product with long life span

Further processing

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

Overlaying

Riga Paint is overlaid with a painting film and Riga Preprime with a preprimed painting film, which are hot-pressed onto the panel surface. The reverse face can be overlaid with the same painting film, phenol film or raw plywood in various grades.

Painting instructions

The Riga Preprime surface is created with the application of a thermoset acrylic latex primer topcoat that is compatible with the use of standard latex, alkyd and oil based paints. The Riga Paint surface is usually finished on site with either latex,

alkyd, oil, polyurethane or epoxy paints.

The suitability of the paint should be tested separately case by case always comply with the paint manufacturer's instructions.

Surface properties

The surface is homogeneous and even, paint consumption is reduced and paint cracking avoided.

Film colour

Riga Paint: brown, film weight 215 g/m² Riga Preprime: 🛑 light grey, film weight 350 g/m²

The total coating can reach up to 450 g/m², depending on the applied glue film.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available 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
- 1830 / 1850 mm x 3050 / 3340 / 3660 / 3850 mm*
- 2150 mm x 3050 / 3340 / 3850 / 4000 mm*
- 2440 / 2500 mm x 1220 / 1250 mm
- * Available for Riga Preprime

Riga Preprime, Paint

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

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.

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	5	7	9	11	13	15	17	19	21	25	29	32	35
Lower limit, mm	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	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 ± 3%.

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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











Riga Prime

Riga Prime is a birch throughout plywood with a primed surface on either one or both faces, prepared for further surface treatment or immediate use.

Applications

Riga Prime's durable and uniform surface is a perfect base for painting or varnishing, and provides a good base for self-adhesive materials.



PACKAGING Die boards

High-end packaging



LIGHT BUILDING

Stage systems & Industrial flooring Panels for overlaying



ROAD TRANSPORT Speciality trailers

Major advantages

• Durable and uniform surface for industrial varnishing • Smooth and even finish, resulting in substantial time and cost saving • Easy machining, laser application possible • Excellent for die-board applications, due to high stability and service life as well as optimal balance between weight and accuracy • Firm and solid base for diecutting blades • Sustainable product

Further processing

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

Grades for overlaying

Depending on the application, plywood grades S (II), BB (III) and WG (IV) are used (classification according to EN 635-2).

Primer

Riga Ply birch plywood with UV curing primer for indoor use.

Coating methods

UV curing primer applied by roller coating method. The volume of primer can be customised to between 25 g/m^2 (PUV1) – 90 g/m^2 (PUV4) according to end use.

Colour of primer: by default transparent colour. Pigmented/coloured primers available on request.

Edge sealing

The edges can be sealed upon request.

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Riga Prime

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24
Number of plies	5	7	9	11	13	15	17
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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





Riga Rhomb, Rhomb Heavy

Riga Rhomb and Riga Rhomb Heavy are birch throughout plywoods, overlaid with a hard wearing film with a rhomboid pattern surface, combining both functionality and a decorative visual appearance.

Applications

Riga Rhomb and Riga Rhomb Heavy are durable panels, designed for technically demanding applications, where high wear resistance and good anti-slip properties are required.



ROAD TRANSPORT

Light commercial vehicles Heavy commercial vehicles Buses

LIGHT BUILDING

Stage systems & Industrial flooring Joinery, furniture & Shopfittings Outdoor solutions

Major advantages

Highly wear resistant and anti-slip surface ensuring safety underfoot
 Weather resistant gluing and water resistant surface • Excellent
 strength-to-weight ratio • Durable and heavy-duty • Surface is
 resistant to commonly used chemicals and surface impact, easy to
 clean • Aesthetic and visually attractive • Sustainable product with
 long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, during the coating process a special rhomb pattern is hot-pressed onto the sheet surface. Depending on the application, films impregnated with unmodified or modified phenolic or melamine resins are applied.

Surface properties

The rhomboid pattern overlay improves panel resistance against mechanical damage and wear, whilst providing a decorative appearance. The surface resists abrasion, commonly used chemicals, and is weather and moisture resistant. Rhomb Heavy with a wear resistant film significantly improves abrasion resistance. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Rolling test (EN 1818) more than 10,000 cycles depending on the coating. Rolling wear is tested with a load of 300 kg.

Taber test (EN 438-2) for Riga Rhomb is up to 900 revolutions, for Riga Rhomb Heavy is up to 10,000 revolutions.

Slip resistance

Anti-slip resistance class R10 according to DIN 51130.

Film colour

Based on phenolic resin:



Film weights from 220 g/m² to 660 g/m². Special wear resistant film available.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Riga Rhomb, Rhomb Heavy

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

Sustainability

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Storage

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

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	±2mm
Length, width (mm) > 2000	±3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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











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 melamineurea-formaldehyde (MUF) adhesive with hardener intended for enduses, 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	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

Sustainability

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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



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RigaWood 🞯

Riga Smooth Mesh

Riga Smooth Mesh is a birch throughout plywood, overlaid with a hard wearing special smooth wire mesh phenol pattern, combining both functionality and a decorative visual appearance.

Applications

Riga Smooth Mesh is a durable panel for demanding applications; it can be used anywhere a heavy-duty, high wear resistant and decorative appearance is required.



LIGHT BUILDING

Industrial wall & Ceiling linings High-end flooring Joinery, furniture & Shopfittings Stage systems & Industrial flooring Outdoor solutions



ROAD TRANSPORT

Passenger cars

Major advantages

Decorative finish with smooth, visually attractive surface • Durable and heavy-duty with high wear resistance • Excellent strength-to-weight ratio • Weather resistant gluing and water resistant surface
Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses • Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, which is hot-pressed onto the panel surface, using a wire net. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied.

Face: smooth wire mesh pattern

Reverse: smooth film, and, if specified, both sides can be covered with a wire mesh pattern

Wire mesh pattern availability:

- Small Mesh 4.5 mesh per 1 cm
- Large Mesh 2.5 mesh per 1 cm

To enhance performance and appearance it is possible to use multilayer films.

Surface properties

The wire mesh overlay improves panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals and is weather and moisture resistant. Depending on the film used (modified phenolic or melamine), abrasion, crack, UV resistance and other properties can be significantly improved. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 2,500 revolutions depending on the coating.

Dark brown 120 g/m² up to 400 revolutions Dark brown 220 g/m² up to 900 revolutions Dark brown 440 g/m² up to 2,500 revolutions

Film colour

Based on phenolic resin:



Film weights from 120 g/m² to 440 g/m².

*With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Riga Smooth Mesh

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

Nominal thickness, mm 4 6.5 9 15 18 21 24 27 30 35 40 45 50 3 5 7 9 Number of plies 13 17 21 25 29 11 15 19 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	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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.

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Storage

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



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Riga Superwire

Riga Superwire is a birch throughout plywood, overlaid with a hard wearing special wire pattern on both faces, combining both functionality and a decorative visual appearance.

Applications

Riga Superwire is a durable panel, designed for technically demanding applications, where high wear resistance and good anti-slip properties are required.



ROAD TRANSPORT

Passenger cars Light & Heavy commercial vehicles Light trailers Specialty trailers Buses



LIGHT BUILDING

Stage systems & Industrial flooring Joinery, furniture & Shopfittings Outdoor solutions

Major advantages

Decorative finish with smooth, visually attractive surface • Highly wear resistant and anti-slip surface ensuring safety underfoot
Excellent strength-to-weight ratio • Weather resistant gluing and water resistant surface • Surface is resistant to commonly used chemicals and surface impact, easy to clean • Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film, during the coating process a special superwire pattern is hot-pressed onto the sheet surface. Depending on the application, films impregnated with unmodified or modified phenolic or melamine resins are applied.

Surface properties

The superwire overlay improves panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals and is weather and moisture resistant. Depending on the film used (modified phenolic or melamine), abrasion, crack, UV resistance and other properties can be significantly improved. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 2,500 revolutions depending on the coating.

Film colour



Film weights from 120 g/m² to 660 g/m². *With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

Riga Superwire

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

Sustainability

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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









Riga Tex

Riga Tex is a birch throughout plywood, overlaid with a hard wearing film with a rough wire mesh pattern, it can be used anywhere anti-slip properties are required.

Applications

Riga Tex is a durable plywood for demanding technical applications, it can be used anywhere heavy-duty, high wear resistant and/or good anti-slip properties are required.



ROAD TRANSPORT

Heavy & Light commercial vehicles and trailers Speciality trailers



HEAVY BUILDING Scaffolding

arrolding

LIGHT BUILDING

Stage systems & Industrial flooring Outdoor solutions



RAIL TRANSPORT Passenger & Cargo wagons

SEA TRANSPORT Containers

Yachts & Boats

Major advantages

 Abrasive surface ensures underfoot safety and a safe surface for freight transport
 Weather resistant gluing and water resistant surface
 Excellent strength-to-weight ratio
 Durable and heavy-duty
 Cost efficient and easily workable with long life span

- Surface is resistant to commonly used chemicals and surface impact
- Sustainable product

Further processing

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

Overlaying

Overlaid with resin impregnated film, which is hot-pressed onto the sheet surface using wire net. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied.

Face: wire mesh pattern

Reverse: smooth film, both sides covered with wire mesh pattern if specified

Wire mesh pattern availability:

- Small mesh 4.5 mesh per 1 cm
- Large mesh 2.5 mesh per 1 cm

For enhanced performance it is possible to use multi-layer films.

Surface properties

The wire mesh overlay improves panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals and is weather and moisture resistant. Depending on the film used (modified phenolic or melamine), abrasion, crack, UV resistance and other properties can be significantly improved. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Rolling test (EN 1818) up to 9,000 cycles depending on the coating. Rolling wear is tested with a load of 300 kg.

Taber test (EN 438-2) up to 10,000 revolutions depending on the coating.

Dark brown 120 g/m² up to 400 revolutions Dark brown 220 g/m² up to 900 revolutions Special wear resistant film 350 g/m² up to 10,000 revolutions Dark brown 440 g/m² up to 2,500 revolutions

Slip resistance

The highest R13 anti-slip resistance class attained according to DIN 51130.

Riga Tex

Film colour



Film weights from 120 g/m² to 660 g/m². Special wear resistant film available.

*With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

Tolerance

- 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

- 1830 / 1850 mm x 3050 / 3340 / 3660 / 3850 mm
- 2150 mm x 3050 / 3340 / 3850 / 4000 mm
- 2290 mm x 4000 mm
- 2440 / 2500 mm x 1220 / 1250 mm

Standard thicknesses

4, 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm Other thicknesses available on request.

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

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	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/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

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Sustainability

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Storage

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





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Riga Timber

Riga Timber is a birch throughout plywood, overlaid with a hard wearing film with a special wooden structure pattern, combining both functionality and a decorative visual appearance.

Applications

Riga Timber is a durable panel for applications where functionality and a wooden surface structure appearance are required.



LIGHT BUILDING

Decorative wall & Ceiling linings Stage systems Joinery, furniture & Shopfittings Outdoor solutions



HEAVY BUILDING

Loose shuttering

ROAD TRANSPORT

Passenger cars Light commercial vehicles

Major advantages

High wear resistance, durable and heavy-duty surface
 Excellent strength-to-weight ratio
 Aesthetic and visually attractive wooden surface structure
 Weather resistant gluing and water resistant surface
 Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses
 Sustainable product with long life span

Further processing

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

Overlaying

Overlaid with resin impregnated film which is hot-pressed onto the sheet surface, using special wooden structure embossed press plates on one side. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied and performance further enhanced with multiple overlays.

Surface properties

The wooden pattern overlay improves panel resistance against mechanical damage and wear, whilst providing a decorative appearance. The surface resists abrasion, commonly used chemicals, and is weather and moisture resistant. It can be easily cleaned with water or steam. The reverse side is smooth, overlaid with resin impregnated film. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 2,500 revolutions depending on the coating.

Film colour

Based on phenolic resin: dark brown
black
green*
ight brown*
yellow
red*

Based on melamine resin:

silver grey
honey
opal white*
light grey
blue

Film weights from 120 g/m² to 660 g/m². *With BB grade veneer under these translucent films.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

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

Standard thicknesses

6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

Riga Timber

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-ureaformaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

Nominal thickness, mm	6.5	9	12	15	18	21	24	27	30	35
Number of plies	5	7	9	11	13	15	17	19	21	25
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/m

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

Customised tolerances available on request.

Sustainability

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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



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Riga Trans, Trans Heavy

Riga Trans and Trans Heavy are birch throughout plywoods, overlaid with a hard wearing film with an enhanced anti-slip pattern for durable performance.

Applications

Riga Trans and Trans Heavy are durable panels, designed for the highest demanding industrial flooring applications, where high wear resistance and excellent anti-slip properties are required.



ROAD TRANSPORT

Heavy commercial vehicles Heavy & Speciality trailers



SEA TRANSPORT Containers



RAIL TRANSPORT Cargo wagons



LIGHT BUILDING Outdoor solutions Stage systems & Industrial flooring

Major advantages

• Extremely abrasive and anti-slip surface ensures transportation and underfoot safety • Weather resistant gluing and water resistant surface • Excellent strength-to-weight ratio • Durable and heavyduty • Surface is resistant to commonly used chemicals and surface impact • Sustainable product with long life span

Further processing

Riga Trans can be further processed according to customer's specification with: cut-to-size, CNC, drilling, milling, jointing, edge machining, assembling in sets, and scarf jointing. For Riga Trans Heavy the use of diamond cutting tools is recommended.

Overlaying

Overlaid with phenolic resin impregnated film, which is hot-pressed onto the sheet surface, using special press plates on one side.

Surface properties

The overlay improves panel resistance against mechanical damage and wear. It resists abrasion, commonly used chemicals, and is weather and moisture proof. Riga Trans Heavy with a wear resistant film significantly improves abrasion resistance. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) for Riga Trans is up to 1,500 revolutions, for Riga Trans Heavy it is up to 5,000 revolutions. Rolling test (EN 1818) up to 6,000 cycles depending on the coating. Rolling wear is tested with a load of 300 kg.

Slip resistance

Excellent surface friction increases anti-slip resistance, and can even exceed the highest R13 class according to DIN 51130.

Film colour

dark brown

Film weighs from 350 g/m² to 440 g/m².

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Panel sizes

- 1220 / 1250 mm x 2440 / 2500 /3000 / 3050 mm
- 1500 / 1525 mm x 2500 / 3000 / 3050 / 3660 mm •
- 2150 mm x 3850 mm

Standard thicknesses

9, 12, 15, 18, 21, 24, 27, 30, 35 mm Other thicknesses available on request.

Riga Trans, Trans Heavy

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 melamine-urea-formaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

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.

Tolerance

Nominal thickness, mm	9	12	15	18	21	24	27	30	35
Number of plies	7	9	11	13	15	17	19	21	25
Lower limit, mm	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6
Upper limit, mm	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4

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

Parameter	Tolerance
Length, width (mm) < 1000	±1mm
Length, width (mm) – 10002000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	±1mm/m
Edge straightness	±1mm/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

