

**RIGA**[®]

SMOOTH MESH

Product

Birch plywood (Riga Ply) overlaid with a phenol film or with an UV resistant film on both faces. The wear side has a smooth wire mesh pattern (WH); the reverse normally is smooth, although it can have wire mesh pattern, too. Riga Smooth Mesh wire mesh overlay is decorative and resists hard wear.

Film color

Phenol films: dark brown (120, 130 (wear resistant) and 220 g/m²), light brown (120 g/m²), yellow non-transparent (167g/m²), green (120g/m²), black (120g/m²), red (220g/m²), UV resistant film: grey (174g/m²) and blue (200g/m²).

Applications

For walls and applications where high wear resistance and/or decorativeness is required.

Further processing

Plywood can be machined with wood working tools: cutting, drilling, milling, jointing in length, tongue and groove (T&G), half laps, profiled edges etc.

Advantages

The smooth wire mesh surface has high resistance to wear, it is decorative, weather- and water-proof, and resists to commonly used chemicals, easy-to-clean. In addition, the product is environmentally friendly.

Gluing classes

Plywood is glued with waterproof phenol formaldehyde resin adhesive. The weather and boiling water resistant bonding meets the requirements of the following standards:

EN 314 / 3rd class;
BS 1203 / H 4 (previously WBP);
DIN 68705 Part 3 / type BFU 100.

Formaldehyde emission

In accordance with the standard EN 13986 the formaldehyde emission meets the Class E1 requirements (test method EN 717 Part 2). Plywood glued with phenol-formaldehyde resins meets the CARB Phase 2 and Japanese 4-Star Regulation's requirements.

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Overlaying

A smooth phenol or an UV resistant film, which is hot-pressed onto the surface, is used as an overlay. The phenol film is composed of a basic paper which is impregnated with phenol resin. The UV resistant film is impregnated with special thermosetting mixture of polymers containing amino resins. Riga Smooth Mesh have smooth wire mesh pattern imprinted in hot pressing process.

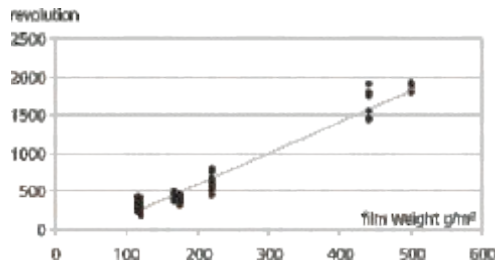
On special request, panels can be overlaid with multi layer phenol film thus giving superior wear resistance of overlay. The overlaying film can be the same on both sides or it can differ. Wire mesh pattern can be of two kinds:

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

Characteristics of overlay

Overlaying surface is smooth, glossy and hard. It withstands abrasion, it is weather and moisture proof and resists commonly used chemicals, dilute acids and alkalis. The surface is easy to clean with water or steam wash.

Abrasion resistance according to the Taber test (EN 438-2): depends on applied film, surface texture, conditions of product storage, thickness of film (see below) a.o.



The Small Mesh wear resistance to wear parameters are superior to those of the Large Mesh. By using special overlays it is possible to produce plywood with a wear resistance to even above 10 000 revolutions.

Latvijas Finieris specialists will assist you in choosing the most appropriate product.

Edge sealing

The panels' edges are sealed with an acrylic paint, to avoid absorption of moisture. The edge sealing paint and the panels' face colors match, but even other colors are available upon request.

Sizes

- 1220 mm x 2440 / 3050 mm (thickness: 6.5 - 45 mm)
- 1250 mm x 2500 / 3000 mm (thickness: 6.5 - 45 mm)
- 1500 mm x 2500 / 3000 mm
- 1525 mm x 3050 / 3660 mm
- 2150 mm x 3050 / 3340 / 3850 mm

Cut-to-size panels and machined panels available in accordance with the customers' requirements.

Thickness

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

Tolerance

Dimensional and right angle tolerance meets the standard EN 315 requirements.

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
Average actual thickness, mm	6.4	9.2	12.0	14.9	17.7	20.5	23.4	26.5	29.4	35
Lower limit, mm	6.1	8.8	11.5	14.3	17.1	20.0	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

Parameter	Tolerance
Length, width (mm)	
< 1000	± 1 mm
1000...2000	± 2 mm
> 2000	± 3 mm
Right angle	± 0.1 %
Edge straightness	± 0.1 %

Plywood is manufactured by AS Latvijas Finieris whose Quality Management System is certified to the requirements of ISO 9001 by Bureau Veritas Certification.

