

WISA®-Birch

WISA-Birch is a multipurpose product of high quality for various applications, e.g. in vehicles, shipbuilding, construction and furniture. Strong standard construction can be optimised even further by using strength oriented construction. Due to its light, smooth and even surface WISA-Birch offers also an optimal base for different overlaying methods.

Product

WISA-Birch plywood is manufactured of birch veneers. Veneer layers are glued together in a cross bonded construction.

Bonding

Weather resistant gluing according to EN 314-2/class 3 Exterior.

WISA-Birch fulfills the requirements of EN 13986 E1 low formaldehyde emission class.

Surface

Panels have clean sanded wooden surfaces.

Available surface qualities S (II), BB(III) or WG(IV) comply with the Standard EN 635 (Plywood - Classification by surface appearance) and are in part stricter.

S and BB are for end use where sound surface appearance is required.

WG is for end use where the technical properties of birch are needed.

Generally, panels have different appearance on each surface, eg. quality is defined S/WG.

Machining

Pre-cut panels and CNC machined components available on request.

Panel sizes

Standard sizes

1000 x 2000/2500/3000 mm
1220/1250 x 2440/2500 mm
1500/1525 x 2500/3000/3050/3660 mm

Size tolerance (length/width) ± 1 mm/1000 mm

Squareness tolerance ± 1 mm/1000 mm





Thickness and technical properties

Nominal thickness (mm)	Tolerance min - max (actual mm)	Weight about kg/m ²	Strength in bending fm II (N/mm ²) *	Modulus of elasticity Em II (N/mm ²)*
6.5	6.1 – 6.9	4.4	50.9	12 735
9	8.8 – 9.5	6.1	45.6	11 394
12	11.5 – 12.5	8.2	42.9	10 720
15	14.3 – 15.3	10.2	41.3	10 316
18	17.1 – 18.1	12.2	40.2	10 048
21	20.0 – 20.9	14.3	39.4	9 858
24	22.9 – 23.7	16.3	38.9	9 717
27	25.2 – 26.8	18.4	38.4	9 607
30	28.1 – 29.9	20.4	38.1	9 519

* 95% of panels have greater strength properties

Sizes and thicknesses relating to moisture content 8–12%.

Thicknesses and tolerances fulfill the requirements of EN 315 (Plywood - Tolerances for dimensions) and are in part stricter. Other thicknesses on request.

Designed strength properties and thicknesses available on request.

For all detailed technical values, please see DoP (Declaration of Performance) UPM007CPR on www.wisaplywood.com/dop.

Storing instruction

Panels should be stored horizontally on a level surface in a dry, covered place.

Installation instructions

The panels can have dimensional changes due to changes in the air humidity.

Please leave 1–2 mm/m expansion gaps between panels during installation.

WISA-Birch can be processed with proper wood working tools. Panels can be painted, varnished or lacquered. WISA-Birch is good base for veneering and other overlaying methods. Without any further treatment WISA-Birch is suitable for interior end uses where no direct moisture stress is existing.

Environment

WISA products are manufactured in Europe according to the strictest sustainability principles. By choosing WISA, our customers can have the confidence that their plywood and veneer come only from legal sources and conform to all relevant standards and regulations, including the European Union Timber Regulation (EUTR).

UPM leads the integration of bio and forest industries into a sustainable future characterised by innovation, responsibility and resource efficiency.

Additional information

Wood being a living material, every panel is unique. Thus a photograph or a sample piece cannot represent all the panels, as regards colours, shades, graining, knots etc.

For further information on installation, maintenance, disposal, environmental matters etc. please see www.wisaplywood.com or contact your supplier or UPM.



UPM Plywood

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UPM policy is one of continuous development. We reserve the right to amend specifications without notice or obligation.