

Birch Ply

SP



Metsä Wood SP is birch plywood panel overlaid with a weatherproof paint base paper. SP provides a reliable and crack resistant painting substrate. The ready to paint surface is suitable for both interior and demanding exterior applications.

Applications

Metsä Wood SP is a general paint base panel for various applications:

- **Building applications:** Interior and exterior cladding, showrooms and displays, traffic noise barriers, stage constructions
- **Transport industry:** Walls and bulk heads in trailers and containers
- **Other applications:** Traffic signs, information signs, billboards, playground equipment, furniture

Major advantages

- **Smooth, durable and ready to paint surface**
- **Suitable for most commercial paint types**
- **Painted and edge sealed panel is weather and UV resistant**
- **Excellent strength-to-weight ratio**
- **Dimensionally stable**
- **Strong and rigid**
- **Easy to machine and fasten using conventional woodworking tools and fasteners**
- **Can withstand impacts and other forms of bruising**
- **Environmentally friendly**
- **Weather- and boil-proof bonding**

Base plywood

The base plywood of Metsä Wood SP is Metsä Wood Birch. Birch plywood is made of cross-bonded 1.4 mm thick birch veneers bonded with weather- and boil-resistant phenol formaldehyde adhesive.

Overlay

The overlay is lightly impregnated paper, which provides reliable painting substrate. Overlays can be applied to both sides (SP/SP), on one side (SP/BB) or with a smooth phenolic film on the reverse surface (SP/film). Film colour is light brown.

Surface properties

The painting paper forms a ready-to-use, weatherproof painting substrate, which requires no additional preparation. The overlay provides excellent adhesion for an even paint finish.

ABRASION RESISTANCE*

	TABER REVOLUTIONS**
SP	1,000

* Values are indicative and valid for new unused panels

** Abrasion resistance is tested according to EN 438-2 / DIN 53799

Edge sealing

Panel edges are sealed at the mill against moisture absorption with acrylic edge sealing paint. The standard colour of the edge sealing is dark brown. Even though edge sealing slows down the absorption of moisture into the wood, it does not eliminate it completely.

Painting instructions

The following paint types are suitable for Metsä Wood SP plywood: epoxy, polyurethane and alkyd enamel paints as well as water-based exterior paints. In all cases the paint manufacturer's instructions should be observed. In exterior uses SP plywood should be treated with a primer and top coat paint. The edges, through holes and other machined surfaces should be treated in the similar way as the plain surfaces.

Panel sizes

	LENGTH (mm)	WIDTH (mm)				
		2,400	2,440	2,500	3,000	3,050
SP	1,200*	■	■	■	■	■
	1,220*	■	■	■	■	■
	1,250*	■	■	■	■	■
	1,500*					
	1,525*					

* The measurement indicates the orientation of the surface veneer grain.

■ = standard panel size

Other sizes are available on request.

Size tolerances

Measured in accordance with standard EN 324, the plywood size and squareness tolerances meet EN 315 requirements.

PANEL TOLERANCES

LENGTH / WIDTH	TOLERANCE
< 1,000 mm	±1 mm
1,000-2,000 mm	±2 mm
> 2,000 mm	±3 mm
Squareness	±0.1 % or ±1 mm/m
Edge straightness	±0.1 % or ±1 mm/m

Thicknesses, structures and thickness tolerances

The thickness tolerances fulfil the requirements of standard EN 315 and are in part more stringent than the official requirements.

THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES OF THE PANELS *

NOMINAL THICKNESS (mm)	NUMBER OF PLYS (pcs)	THICKNESS TOLERANCE		WEIGHT (kg/m ²)
		min. (mm)	max. (mm)	
9	7	8.8	9.5	6.1
12	9	11.5	12.5	8.2
15	11	14.3	15.3	10.2
18	13	17.1	18.1	12.2
21	15	20.0	20.9	14.3
24	17	22.9	23.7	16.3
27	19	25.2	26.8	18.4
30	21	28.1	29.9	20.4

* Moisture content of the product affects its dimensions

* Average density of Metsä Wood birch plywood is 680 kg/m³ (at relative humidity of RH 65 %)

* Special structures and thicknesses are available on request

* Customised tolerances are possible but must be agreed separately

Bonding classes

Metsä Wood plywood panels are bonded with a weather- and boil-resistant phenol formaldehyde adhesive. The gluing meets the requirements of the standard EN 314-2 / Class 3 (exterior).

Formaldehyde emissions

Determined according to EN 717-1, the formaldehyde emitted by Metsä Wood SP falls far below the Class E1 requirement of ≤ 0.100 ppm. The formaldehyde emission of Metsä Wood SP is approximately 0.050 ppm.

Mechanical properties

Metsä Wood SP is a CE marked product and its strength and elasticity properties are identical with the Metsä Wood Birch standard plywood properties. The properties are specified according to standards EN 789 and EN 1058 and can be found in the Metsä Wood SP Declaration of Performance (DoP). DoP documents can be downloaded from www.metsawood.com/dop.

Machining

Metsä Wood SP plywood panels can be machined according to customer specification on request.

Packaging

Metsä Wood SP panels are packed in moisture-resistant plastic wrapping.

PACKING QUANTITIES

PANEL SIZE (mm)	NUMBER OF PANELS PER PALLET BY THICKNESS							
	9	12	15	18	21	24	27	30
1,500 / 1,525 x 2,400-3,660	65	50	40	35	30	25	25	20
1,200/1,220/1,250 x 3,000-3,660								
1,500 / 1,525 x 1,500-2,135	100	75	60	50	45	40	35	30
1,200/1,220/1,250 x 1,200-2,750								

Further information

- Metsä Wood SP Declaration of Performance (www.metsawood.com/dop)

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