

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

- **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 fastener**
- **Can withstand impacts and other forms of bruising**
- **Weather- and boil-proof bonding**
- **Made of sustainable Nordic wood and PEFC (PEFC/02-31-381) certified**

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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	1000

* 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 against moisture absorption with acrylic edge sealing paint. 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

		WIDTH (mm)				
	LENGTH (mm)	2400	2440	2500	3000	3050
	1200*	■	■	■	■	■
SP	1220*	■	■	■	■	■
	1250*	■	■	■	■	■

* 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	NUMBER OF PLYS	THICKNESS TOLERANCE		WEIGHT
(mm)	(ant.)	min. (mm)	max. (mm)	kg/m ²
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.

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APPROVALS AND DESIGN PROPERTIES

Metsä Wood SP is CE and UKCA marked and the design properties are determined according to standard EN 13986. The design properties given in the Declaration of Performance (DoP) and in the UK Declaration of Conformity (UK DoC) are to be used for structural calculations with EN 1995 (Eurocode 5). The DoP documents can be downloaded from www.metsawood.com/dop and the UK DoC documents can be downloaded from www.metsawood.com/ukdoc.

Birch plywood production is managed according to the principles of standard ISO 9001. The quality and the constancy of performance of the product is controlled by regular third party inspections and audits.

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
1500/1525 X 2400-3660								
1200/1220/1250 X 3000-3660	65	50	40	35	30	25	25	20
1500/1525 X 1500-2135								
1200/1220/1250 X 1200-2750	100	75	60	50	45	40	35	30

FURTHER INFORMATION

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

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