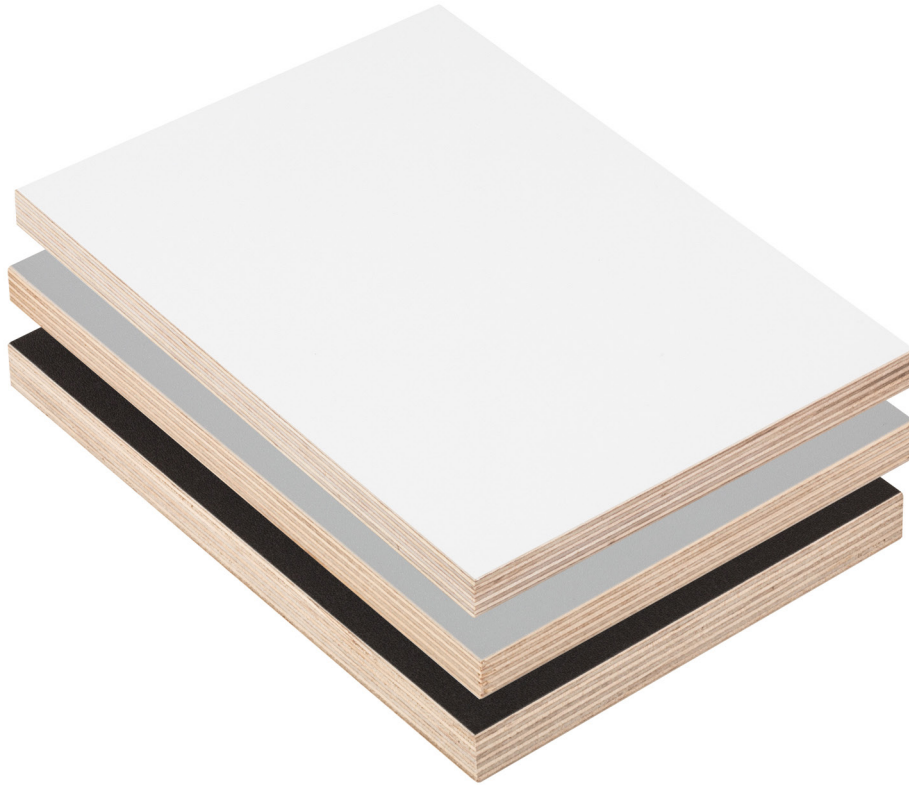


Birch Ply

Flex L



Metsä Wood Flex L is a birch plywood panel overlaid with a coloured thermoplastic overlay. Flex L is available in range of colours and ready finished surfaces. The combination of technical properties with high class surfaces makes Flex L an excellent panel for various interior and transportation applications.

APPLICATIONS

Metsä Wood Flex L provides an easy ready finished surface solution.

- **Transport industry:** Side walls for horse and box trailers, side walls for light and medium size trucks, doors bulk heads, van linings and transit and flight cases
- **Building industry:** Furniture, shop, kitchen and sanitary fittings, playground equipment, fencing and rebound walls

MAJOR ADVANTAGES

- **High quality surfaces**
- **Excellent impact and crack resistance**
- **Easy to fix and cut**
- **Good wear resistance**
- **Easy to clean**
- **Good resistance against most chemicals**
- **Strong and rigid panel**
- **Excellent strength-to-weight ratio**
- **Dimensionally stable**
- **Made of sustainable Nordic wood and PEFC (PEFC/02-31-381) certified**

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BASE PLYWOOD

The base plywood of Metsä Wood Flex L 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

Flex O6 overlay

The panel is overlaid with white 0.6 mm thick structured (burl) polypropylene overlay. Flex O6 is available in colour WhiteO6 (RAL 9016). Light greyO6 (RAL 7001) overlay is available on request.

SURFACE PROPERTIES

The surface of the overlay is slightly structured to improve wear and scratch resistance. Overlay is elastic, tough and does not crack easily. The overlay is safe to use and it is free of chlorine, halogens, plasticizer, formaldehyde and heavy metals.

The surface is easy to clean with water and normal detergents. Strong acids, alkalis and e.g. acetone may cause visual changes on the surface.

Metsä Wood Flex L plywood products have very high surface quality and the surface is susceptible to scratches due to its softer appearance. Extra caution has to be practised in handling and storing the panels to prevent damage. Extreme moisture penetration may cause visible changes on the appearance of the product.

Technical properties of surface

- Taber value is approx 10 000 R*
- Colour change $\Delta E < 1.5$ according to ISO 4892-2 (600 h)
- Crack resistance EN13696 no cracks
- Impact resistance Class IC3 according to EN 438-2

* 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. The colour of the edge sealing is transparent, other colours are available on request. Even though edge sealing slows down the absorption of moisture into the panel, it does not eliminate it completely.

PANEL SIZES

Metsä Wood Flex L O6 is available in sizes:

- 1 850 mm x 4 100 mm
- 2 000 mm x 4 100 mm

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
		min. (mm)	max. (mm)	
(mm)	(ant.)			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

* The moisture content of the product affects its dimensions

* Average density of Metsä Wood Spruce plywood is 680 kg/m³ (at a relative humidity of 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).

The overlay is bonded to plywood with weather-resistant adhesive (EN 204 class D4).

FORMALDEHYDE EMISSIONS

Determined according to EN 717-1, the formaldehyde emissions of Metsä Wood Flex are well below the Class E1 requirement of ≤ 0.100 ppm. The product complies with Commission Regulation (EU) 2023/1464, and the formaldehyde emission is below the specified limit of 0.062 mg/m³.

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APPROVALS AND DESIGN PROPERTIES

Metsä Wood Flex L strength and elasticity properties are identical with the Metsä Wood Birch standard plywood properties. The properties are specified according to standard EN 13986 and can be found in the Metsä Wood Birch Declaration of Performance (DoP). DoP documents can be downloaded from www.metsawood.com/dop.

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.

PACKAGING

Metsä Wood Flex L 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
1850 / 2000 x 4100	50	35	30	25	20	15
1850 / 2000 x 1850 / 2050	100	70	60	50	40	30

FURTHER INFORMATION

- Metsä Wood Birch Declaration of Performance (www.metsawood.com/dop)
- Metsä Wood Flex Smooth Product Data Sheet

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METSÄ WOOD

P.O. Box 50, 02020 Metsä, Finland

Tel. +358 1046 05

metsagroup.com/metsawood

