Birch Ply
Top

Metsä Wood Top is a phenolic film overlaid birch plywood panel with a raised pattern. High visual quality and wear-resistant surface makes Top multipurpose plywood flooring panel.

APPLICATIONS

Metsä Wood Top is an ideal panel for applications that require high quality visual and wear resistant surface:

- Transport industry: Vehicle floors (trailers, trucks, lorries, busses, vans, etc.), railway wagon floors, ship decking, transport platforms etc.
- Building applications: Working platforms, scaffolding, stages, warehouse and factory hall floors, loading docks, pedestrian bridges, warehouse shelves etc.

MAJOR ADVANTAGES

- **Durable and weather-resistant overlay**
- **Slip resistant raised pattern surface**
- **Excellent strength-to-weight ratio**
- **Dimensionally stable**
- **Strong and rigid**
- **Withstands impacts and other forms of bruising**
- **Easy to machine and fasten using conventional woodworking tools and fasteners**
- **Easy to clean**
- **Good chemical resistance**
- **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 Top 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 patterned phenolic film surface is dark brown, semi-glossy, hard and resistant to impact and abrasion. The phenolic film is also applied to the reverse side which is smooth. The phenol film is not UV resistant and depending on the overlay type the colour may change when exposed to sunlight over prolonged periods.

SURFACE PROPERTIES

The surface is hard and resistant to abrasion and rolling wear. The surface is also moisture-resistant and can tolerate commonly used chemicals as well as diluted acids and alkalis. The surface is easy to clean with water or stream.

ABRASION AND ROLLING WEAR RESISTANCE*

OVERLAY WEIGHT	TABER REVOLUTIONS**	ROLLING WEAR***
220 g/m²	700	5000
440 g/m²	2100	7000

* Values are indicative and valid for new unused panels
** Abrasion resistance is tested according to EN 438-2 / DIN 53799
*** Rolling wear resistance is determined by method corresponding to SS 923508. Rolling wear is an average calculated from the random rolling movements with a load of 200 kg, before the first signs of breakdown occur

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.

PANEL SIZES

		WIDTH (mm)				
	LENGTH (mm)	2400	2440	2500	3000	3050
Top	1500*	■	■	■	■	■
	1525*	■	■	■	■	■

* The measurement indicates the orientation of the surface veneer grain.
■ = standard panel size with dark brown overlay

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 PLIES	THICKNESS TOLERANCE		WEIGHT
(mm)	(ant.)	min. (mm)	max. (mm)	kg/m²
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 Top falls far below the Class E1 requirement of ≤ 0.100 ppm and fulfils also the most stringent requirements in the world (≤ 0.030 ppm). The formaldehyde emission of Metsä Wood Top is approximately 0.017 ppm.

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APPROVALS AND DESIGN PROPERTIES

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

PACKAGING

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

PACKING QUANTITIES

	NUMBER OF PANELS PER PALLET BY THICKNESS							
PANEL SIZE (mm)	9	12	15	18	21	24	27	30
1500 / 1525 x 2400 - 3050	65	50	40	35	30	25	25	20
1500 / 1525 x 1500 - 2135	100	75	60	50	45	40	35	30

FURTHER INFORMATION

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

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