

# Birch Ply

## Deck



Metsä Wood Deck is birch plywood overlaid with phenol film with a rough wire mesh pattern. The rough-surfaced Deck is durable, multipurpose flooring panel.

### APPLICATIONS

Metsä Wood Deck is an ideal panel for applications that require highly wear-resistant and rough surfaces:

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

### MAJOR ADVANTAGES

- Durable and weather resistant overlay
- Slip resistant wire mesh surface
- Light and 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
- Environmentally friendly
- Weather and boil proof bonding

### BASE PLYWOOD

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

Designed and tailor-made to serve in demanding applications, birch plywood can be ordered with special oriented veneer structures to provide even higher strength and stiffness properties.

### OVERLAY

The panel is overlaid with a durable phenolic film, and a rough wire mesh pattern is pressed into the surface during hot-pressing. A smooth phenolic film is normally applied to the reverse side which is usually smooth. A film with a basis weight of 120 g/m<sup>2</sup> is normally used. Metsä Wood Deck is also available with 220 g/m<sup>2</sup> film.

Standard film colours are dark brown, black and green. Other colours are available by order. The phenol film is not UV resistant and the colour may change if exposed to sunlight over prolonged periods.

### SURFACE PROPERTIES

Metsä Wood Deck surface is wire mesh patterned. The surface is hard, rough and highly 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 steam.

### ABRASION AND ROLLING WEAR RESISTANCE OF METSÄ WOOD DECK (VALUES ARE INDICATIVE AND VALID FOR NEW UNUSED PANELS)

	OVERLAY WEIGHT	TABER REVOLUTIONS*	ROLLING WEAR*
Deck	120 g / m <sup>2</sup>	350	3500
Deck	220 g / m <sup>2</sup>	700	5000

\* 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

# Birch Ply

## Deck

### EDGE SEALING

Panel edges are sealed 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.

### PANEL SIZES

Metsä Wood Deck is available in sizes:

- 1200 / 1220 / 1250 mm x 2400 / 2440 / 2500 / 3000 / 3050 / 3600 / 3660 mm
- 1500 / 1525 mm x 2500 / 3000 / 3050 / 3600 / 3660 mm

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

Other sizes are available on request. Larger size scarf-jointed XL and KingSize panels are also available by special order.

### SIZE TOLERANCES

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

#### PANEL TOLERANCES

LENGTH / WIDTH	TOLERANCE
< 1000 mm	±1 mm
1000-2000 mm	±2 mm
> 2000 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
		min. (mm)	max. (mm)	
(mm)	(pcs)			kg/m <sup>2</sup>
6.5	5	6.1	6.9	4.4
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/m<sup>3</sup> (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 (WBP, BFU, AW, exterior).

The gluing meets the requirements of the following international standards:

- EN 314-2 / Class 3 (exterior)
- DIN 68705-3 / BFU 100
- BS 6566 Part 8 / WBP

### FORMALDEHYDE EMISSIONS

Determined according to EN 717-1, the formaldehyde emitted by Metsä Wood Deck 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 Deck is approximately 0,017 ppm.

### PANEL STRENGTH PROPERTIES

Metsä Wood Deck 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 Deck Declaration of Performance (DoP). DoP documents can be downloaded from [www.metsawood.com/dop](http://www.metsawood.com/dop).

### MACHINING

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

### PACKING

Metsä Wood Deck panels are packed in moisture resistant plastic wrapping.

#### PACKING QUANTITIES

PANEL SIZE	mm	NUMBER OF PANELS PER PALLET BY THICKNESS								
		6.5	9	12	15	18	21	24	27	30
1500 /1525 x 2400–3660 1200/1220/1250 x 3000–3660		90	65	50	40	35	30	25	25	20
1500 /1525 x 1500–2135 1200/1220/1250 x 1200–2750		140	100	75	60	50	45	40	35	30

### FURTHER INFORMATION

- Metsä Wood Deck Declaration of Performance ([www.metsawood.com/dop](http://www.metsawood.com/dop))
- Metsä Wood Transport brochure
- Metsä Wood Deck XL Product Data Sheet
- Metsä Wood KingSize Product Data Sheet

### METSÄ WOOD

P.O.Box 50, 02020 Metsä, Finland

Tel. +358 1046 05

[WWW.METSAWOOD.COM/PLYWOOD](http://WWW.METSAWOOD.COM/PLYWOOD) →

This leaflet is provided for information purposes only and no liability or responsibility of any kind is accepted by Metsä Wood or their representatives, although Metsä Wood has used reasonable efforts to verify the accuracy of any advice, recommendation or information. Metsä Wood reserves the right to alteration of its products, product information and product range without any notice.

