



## Metsä Wood Deck

Metsä Wood Deck is birch plywood overlaid with phenol film with a rough wire mesh pattern. The rough-surfaced Metsä Wood 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 bonded with a weather and boil-resistant phenolic resin adhesive.



### 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, grey, black and green. Other colours are available by order. The colour is even due to the wire mesh pattern. 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

## EDGE SEALING

Panel edges are sealed against moisture absorption with acrylic edge sealing paint. The standard colour of the edge sealing is dark brown, but edge sealing colour can also be ordered to match the surface film colour. 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 birch plywood standard 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, with max. dimensions of 13700 x 2800 mm.

## 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 is in part more stringent than the official requirements.

### THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES OF THE PANELS

NOMINAL THICKNESS (mm)	NUMBER OF PLIES (pcs)	THICKNESS TOLERANCE		WEIGHT (kg/m <sup>2</sup> )
		min. (mm)	max. (mm)	
6.5	5	6.1	6.9	4.4
9		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
2	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 phenolic resin 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 717-2, the formaldehyde emitted by Metsä Wood Deck panels falls far below the Class E1 requirement of ≤ 3,5 mg/(m<sup>2</sup>\*h). The formaldehyde emission of Metsä Wood Deck is approximately 0,2 mg/(m<sup>2</sup>\*h).

## PANEL STRENGTH PROPERTIES

Metsä Wood Deck strength properties are identical with standard plywood types. Panel strength and elastic properties can be found in Handbook of Finnish Plywood.

## 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

- Handbook of Finnish Plywood, Finnish Forest Industries Federation, 2001
- Metsä Wood Transport brochure, 2006
- Metsä Wood Plywood brochure, 2006
- [www.metsawood.com](http://www.metsawood.com)

## METSÄ WOOD

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