

# Birch Ply

## Floor Floor L



Metsä Wood Floor is multilayer phenol film overlaid birch plywood with a rough wire mesh pattern. The rough-surfaced Floor is a heavy-duty, multipurpose plywood flooring panel for applications requiring a reliable, long-lasting anti-slip surface. Metsä Wood Floor is available in standard and L sizes.

### Applications

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

- Vehicle floors (trailers, trucks, lorries, vans etc.)
- Railway wagon floors
- Ship decking
- Transport platforms

Metsä Wood Floor can also be used in other heavy-duty flooring applications.

### Major advantages

- **Extremely durable and weather resistant overlay**
- **Highly slip resistant wire mesh surface which ensures excellent loading safety**
- **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**
- **Environmentally friendly**
- **Weather- and boil-proof bonding**

### Base plywood

The base plywood of Metsä Wood Floor 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.

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 Floor 500 panel is overlaid with a durable phenolic film, and a tight rough wire mesh pattern is pressed into the surface during hot-pressing. Coarse wire mesh patterned Floor 700 panels available on request. A smooth phenolic film is normally applied to the reverse side. Standard film colour is dark brown. The phenol film is not UV resistant and the colour may change when exposed to sunlight over prolonged periods.

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### Surface properties

The panel has a rough and hard surface. Thick multi-layer overlay can withstand highly abrasive 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\*

	TABER REVOLUTIONS**	ROLLING WEAR***
Floor 500 (tight wire mesh)	3,200	7,000
Floor 700 (coarse wire mesh)	4,300	9,000

\* 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. 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

	LENGTH (mm)	WIDTH (mm)						
		2,400	2,440	2,500	3,000	3,050	3,660	4,110
Floor	1,200*	■	■	■	■	■	■	■
	1,220*	■	■	■	■	■	■	■
	1,250*	■	■	■	■	■	■	■
	1,500*	■	■	■	■	■	■	■
	1,525*	■	■	■	■	■	■	■
Floor L	1,870*	■	■	■	■	■	■	■
	2,020*	■	■	■	■	■	■	■

\* The measurement indicates the orientation of the surface veneer grain.

- = standard panel size with tight wire mesh pattern
- = standard panel size with coarse wire mesh pattern
- = available on request

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)	(pcs)	min. (mm)	max. (mm)	kg/m <sup>2</sup>
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. 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 Floor 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 Floor is approximately 0.017 ppm.

### Mechanical properties

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

### Machining

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

### Packaging

Metsä Wood Floor 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
1,500 / 1,525 x 2,400 – 3,660								
1,200/1,220/1,250 x 2,850 – 3,660	65	50	40	35	30	25	25	20
1,500/1,525 x 1,500 – 2,135								
1,200/1,220/1,250 x 1,200 – 2,800	100	75	60	50	45	40	35	30
1,500/1,525 x 3,670 – 4,110								
1,870/2,020 x 1,870 – 4,110	50	35	30	25	20	15	15	15
1,870 / 2,020 x 1,870 / 2,020	100	70	60	50	40	30	30	30

### Further information

- Metsä Wood Floor Declaration of Performance ([www.metsawood.com/dop](http://www.metsawood.com/dop))
- Metsä Wood Plywood for transport industry brochure

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