

Birch Ply

Deck XL



Metsä Wood Deck XL is a larger size phenolic film overlaid birch plywood panel with a wire mesh pattern. Deck XL is a slip resistant flooring panel for demanding transport applications. XL panels enable larger one piece components.

Applications

Metsä Wood Deck XL is suitable for applications that require large size panels with highly wear-resistant and rough surface. Larger panels facilitate and accelerate installation and provide structures with a high degree of rigidity.

- Transport industry: Van, truck, bus and passenger car floors, railway wagon floors, container floors and ship decking
- Building applications: Warehouse and factory hall floors, parking facilities, loading docks, piers and stages

Major advantages

- **Larger sizes with invisible joints**
- **Slip resistant wire mesh surface**
- **Durable and weather-resistant overlay**
- **Strong and rigid**
- **Excellent strength-to-weight ratio**
- **Dimensionally stable**
- **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 XL 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.

The core panel of the large size Deck XL is scarf-jointed from standard size birch plywood panels using weather-resistant adhesive.

Overlay

The panel is overlaid with a durable phenolic film, and a rough wire mesh pattern is pressed onto the surface during hot-pressing. Standard colour is dark brown 220 g/m². The reverse side is a 220 g/m² smooth phenolic film.

Surface properties

Metsä Wood Deck XL surface is wire mesh patterned. The surface is hard and withstands abrasion and rolling wear, is 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*

	OVERLAY WEIGHT	TABER REVOLUTIONS**	ROLLING WEAR***
Deck XL	220 g / m ²	700	5,000

* 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 panel, it does not eliminate it completely.

Panel sizes

Metsä Wood Deck XL length 4,110 to 6,000 and/or width 2,020 to 2,200 mm. Smaller panel sizes without scarf joint are available in standard and L sizes.

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

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

THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES OF THE DECK XL PANELS*

NOMINAL THICKNESS (mm)	NUMBER OF PLYS (pcs)	THICKNESS TOLERANCE		WEIGHT kg/m ²
		min. (mm)	max. (mm)	
12	9	10.9	12.5	8.2
15	11	13.7	15.3	10.2
18	13	16.5	18.1	12.2
21	15	19.4	20.9	14.3
24	17	22.3	23.7	16.3

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 scarf joint is glued with weather-resistant melamine or resorcinol adhesive.

Formaldehyde emissions

Determined according to EN 717-1, the formaldehyde emitted by Metsä Wood Deck XL 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 XL is approximately 0.017 ppm.

Mechanical properties

Due to the scarf jointed core plywood, the strength values of Metsä Wood Deck XL in the longitudinal direction of the panel are ca. 65 % of standard Metsä Wood Birch plywood values. In the cross direction of the panel the strength values are similar to standard Birch plywood. Stiffness values in both directions are similar to standard Birch plywood.

THICKNESS* (mm)	MEAN MODULUS OF ELASTICITY** (N/mm ²)		CHARACTERISTIC BENDING STRENGTH** (N/mm ²)	
		⊥		⊥
12	10,719	6,781	27.9	33.2
15	10,316	7,184	26.8	33.8
18	10,048	7,452	26.1	34.1
21	9,858	7,642	25.6	34.3
24	9,717	7,783	25.3	34.4

* Moisture content 12 %

** Properties determined according to EN 789 standard

Machining

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

Packaging

Metsä Wood Deck XL panels are packed in moisture-resistant plastic wrapping. The panel wear face is facing up in the packing.

PACKING QUANTITIES

PANEL SIZE (mm)	NUMBER OF PANELS PER PALLET BY THICKNESS				
	12	15	18	21	24
3,000 x 2,200	60	45	40	30	30
4,000 x 2,200	45	35	30	25	20
5,400 x 2,200	30	25	25	20	15
6,000 x 2,200	25	20	20	15	15

Further information

- Metsä Wood Plywood for transport industry brochure

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