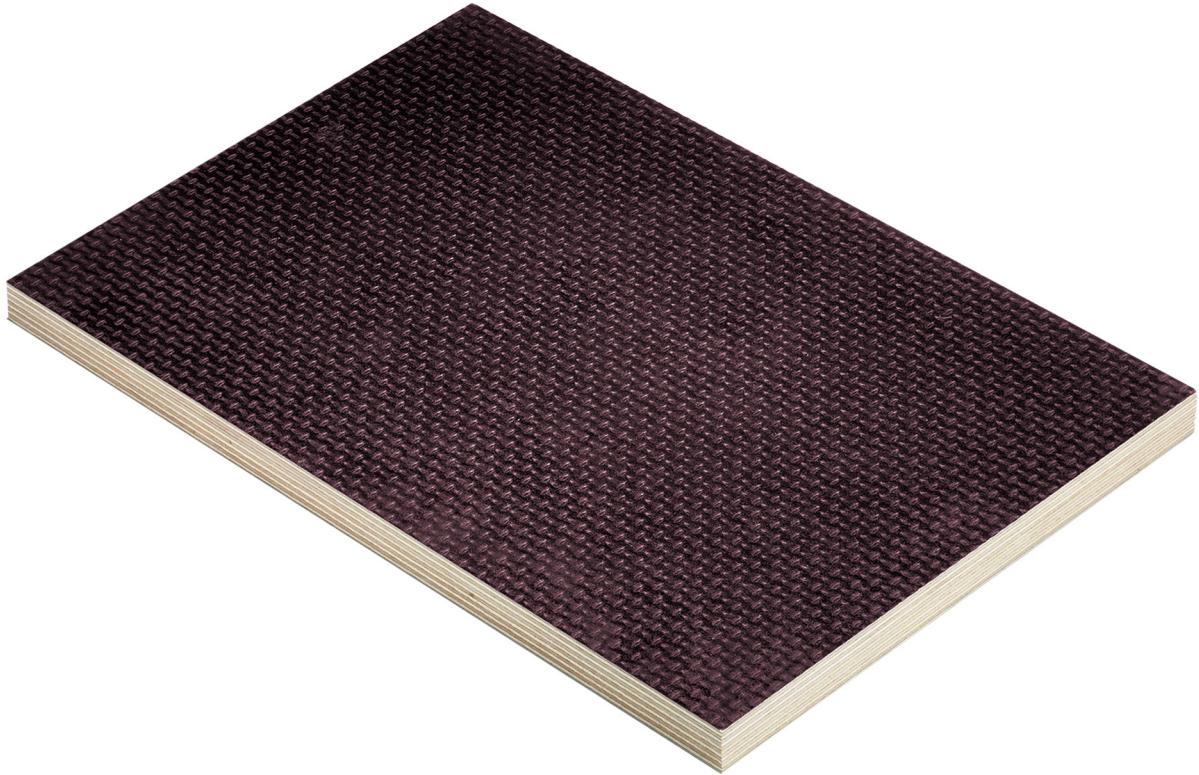


Birch Ply

Deck
Deck L



Metsä Wood Deck is phenol film overlaid birch plywood with a rough wire mesh pattern. The rough-surfaced Deck is durable, multipurpose flooring panel. Metsä Wood Deck is available in various sizes: standard, L, XL and KingSize.

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

- Slip resistant wire mesh surface
- Durable and weather-resistant overlay
- 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/02-31-03) certified

BASE PLYWOOD

The base plywood of Metsä Wood Deck 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 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. A film with a basis weight of 120 g/m² is generally used, but standard panel sizes are available also with 220 g/m² film. Metsä Wood Deck L is available only with 220 g/m² film.

Standard film colour for Deck and Deck L is dark brown. The phenol film is not UV resistant and the colour may change when 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*

	OVERLAY WEIGHT	TABER REVOLUTIONS**	ROLLING WEAR***
Deck (dark brown)	120 g/m ²	350	3500
Deck (dark brown)	220 g/m ²	700	5000

* 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

WIDTH (mm)	2400	2440	2500	3000	3050	3660	4110
LENGTH (mm)							
Deck	1200*	■	■	■	■	■	
	1220*	■	■	■	■	■	
	1250*	■	■	■	■	■	
	1500*	■	■	■	■	■	■
	1525*	■	■	■	■	■	■
Deck L	1870	■	■	■	■	■	■
	2020	■	■	■	■	■	■

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

■ = standard panel size with dark brown overlay

■ = available on request

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
< 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 PLYS	THICKNESS TOLERANCE		WEIGHT
(mm)	(no.)	min. (mm)	max. (mm)	kg/m ²
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/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 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.

APPROVALS AND DESIGN PROPERTIES

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

PACKAGING

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

PACKING QUANTITIES

	NUMBER OF PANELS PER PALLET BY THICKNESS								
PANEL SIZE (mm)	6.5	9	12	15	18	21	24	27	30
1500 / 1525 x 2400 - 3660 1200 / 1220 / 1250 x 2850 - 3660	90	65	50	40	35	30	25	25	20
1500 / 1525 x 1500 - 2135 1200 / 1220 / 1250 x 1200 - 2800	140	100	75	60	50	45	40	35	30
1500 / 1525 x 3670 - 4110 1870 / 2020 x 1870 - 4110	70	50	35	30	25	20	15	15	15
1870 / 2020 x 1870 / 2020	140	100	70	60	50	40	30	30	30

FURTHER INFORMATION

- Metsä Wood Deck Declaration of Performance (www.metsawood.com/dop)
- Metsä Wood Deck UK Declaration of Conformity (www.metsawood.com/ukdoc)
- Metsä Wood Transport brochure
- Metsä Wood Deck XL Product Data Sheet
- Metsä Wood KingSize Product Data Sheet

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