



Finnforest Deck XL

Finnforest Deck XL is a larger size birch plywood panel with a wire mesh phenolic overlay. The Deck XL is a slip resistant flooring panel for demanding transport applications. XL panels enable larger one piece components.

Applications

Finnforest 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: Trailer, bus, truck and van floors; passenger car floors, railway wagon floors, container floors and ship decking
- Building applications: Warehouse and factory hall floors, parking facilities, loading docks, piers, stages and sport stands

Major advantages

- Durable and weather resistant overlay
- Slip resistant wire mesh surface
- Larger sizes with invisible joints
- Strong and rigid
- Light and 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 Finnforest Deck XL is Finnforest Birch, which is bonded with a weather and boil-resistant phenolic resin adhesive. The core panel of the large size Finnforest Deck XL panel is scarf-jointed from standard size birch plywood panels using weather resistant melamine resin.

Overlay

A durable phenolic film is hot-pressed onto the panel surface. Standard colour is dark brown 220 g/m². Other colours and film thicknesses are available on request.

The reverse side is either a smooth phenolic film.

Surface properties

Finnforest 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 of Finnforest Deck XL (values are indicative and valid for new unused panels).

	Overlay weight	Taber revolutions*	Rolling wear**
Deck XL	220 g / m ²	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. Standard colour is dark brown. Even though edge sealing hinders the absorption of moisture into the panel, it does not eliminate it completely.

Panel sizes

Finnforest Deck XL maximum size is 6000mm x 2200 mm.

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
< 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

Thicknesses, structures and thickness tolerances of the Deck XL panels

Nominal thickness (mm)	Number of plies (pcs)	Thickness tolerance		Weight (kg/m ²)
		min. (mm)	max. (mm)	
9	7	8.2	9.5	6.1
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
27	19	24.6	26.8	18.4
30	21	27.5	29.9	20.4

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Bonding classes

Finnforest 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

The scarf joint is glued with weather resistant melamine resin.

Formaldehyde emissions

Determined according to EN 717-2, the formaldehyde emitted by Finnforest Deck XL panels falls far below the Class E1 requirement of ≤ 3,5 mg/(m²*h). The formaldehyde emission of Finnforest Deck XL is approximately 0,2 mg/(m²*h).

Panel strength properties

Due to the scarf jointed core plywood, the strength values of Deck XL in the longitudinal direction of the panel are ca. 70% of standard Finnforest Birch plywood values. In the cross direction of the panel the strength values are similar to standard Finnforest Birch plywood. Stiffness values in both directions are similar to standard Finnforest Birch plywood.

Mechanical properties of Finnforest Deck XL.

Moisture content 12%. The values are EN 789 values.

Thickness (mm)	Mean Modulus of Elasticity (N/mm ²)		Characteristic Bending Strength (N/mm ²)	
		⊥		⊥
9	11395	6105	31.9	32.1
12	10719	6781	30.0	33.2
15	10316	7184	28.9	33.8
18	10048	7452	28.1	34.1
21	9858	7642	27.6	34.3
24	9717	7783	27.2	34.4
27	9607	7893	26.9	34.5
30	9519	7981	26.7	34.6

Machining

Finnforest Deck XL plywood panels can be machined according to customer specification on special request.

Packing

Finnforest Deck XL panels are packed in covered pallets. The panel wear face is facing up in the packing.

Packing quantities

Panel size	mm	Number of panels per pallet by thickness							
		9	12	15	18	21	24	27	30
3000 x 2000		80	60	45	40	30	30	25	20
4000 x 2000		60	45	35	30	25	20	20	15
5400 x 2000		45	30	25	25	20	15	15	10
6000 x 2200		35	25	20	20	15	15	10	10

Further information

- Handbook of Finnish Plywood, Finnish Forest Industries Federation, 2001
- Finnforest Heavy Transport brochure, 2008
- Finnforest XL brochure, 2008
- www.finnforest.com



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