



Description

Powerplywood Birch is a birchwood-veneer plywood sheet with film coating on both sides, for horizontal and vertical formwork applications.

Sheet structure	Glue-bonding	Surfaces
<ul style="list-style-type: none"> Film-coated plywood sheet made of birchwood. The arrangement of the veneers is longwise. 	<ul style="list-style-type: none"> Boil-resistant, alkali-resistant, water-resistant and weather-resistant phenolic-resin glue-bonding. The glue-bonding meets the requirements of EN 314- 2 Service Class 3, DIN 68705 BFU 100 or BS 6566 WBP. 	<ul style="list-style-type: none"> Both sides phenolic-resin film coating with 125 g (SC) or 250 g (DC) per m² and side. Edge sealing: Acrylic-resin varnish.

Technical data

Nominal thickness (mm)	Layers	Weight (kg/m ²)	Mechanical properties						Format (mm)
			E _m (N/mm ²)		f _m (N/mm ²)		EI (kNm ² /m)		
				⊥		⊥		⊥	
9	7	6.1	11395	6105	45.6	32.1	0.73	0.39	2500*1250 2440*1220
12	9	8.2	10719	6781	42.9	33.2	1.54	0.98	
15	11	10.2	10316	7184	41.3	33.8	2.79	1.94	
18	13	12.2	10048	7452	40.2	34.1	4.56	3.38	
21	15	14.3	9858	7642	39.4	34.3	6.97	5.40	

E_m... mean flexural modulus of elasticity f_m... characteristic flexural stiffness
EI ... Flexural strength || ... parallel to the grain ⊥ ... at right angles to the grain

Properties	Tolerance
Length/Width	± 3.5 mm (as per EN 315)
Perpendicularity	± 1.0 mm/m
Straightness of sheet edge	± 1.0 mm/m

Other Properties	
Fire behaviour	D - s2, d0
Thermal conductivity	0.17 W/mK
Formaldehyde class	E1

NOTE: All values in the tables are based on a sheet moisture content of 10 ± 2% on delivery. Changes in the wood's moisture content can have effects on the weight, dimensions and mechanical properties of the sheet. The grain of the outside layers of this formwork sheet runs transverse to the longitudinal direction of the sheet.

Number of cycles

Possible frequency of use depends on many factors acting on the formwork sheet. Given optimum conditions of use and correct handling, with sheets 18 mm thick up to **30 (SC) or 50 (DC) use cycles** (guide value) can be achieved.





Notes on use

- ▶ Ensure that the formwork sheets are treated correctly whenever they are used. Formwork sheets are subject to the natural swelling and shrinkage of wood associated with moisture absorption and loss in the corresponding climatic conditions.
- ▶ Prior to use, always make sure that the wood moisture content of the formwork sheets is matched to that of the surroundings.
- ▶ Cover sheets to protect them from extreme climatic influences such as exposure to sunlight or moisture. This reduces cracking.
- ▶ Seal cut edges, and around holes, with edge varnish.
- ▶ Use a high-quality release agent.
- ▶ Immediately after stripping the formwork, remove concrete residues from the surfaces that were in contact with the concrete.

Do Not Use

- ▶ Do not use pointed or sharp objects, wire brushes, abrasive disks or cup brushes.
- ▶ Do not use high-pressure spray cleaners.

General information

The data stated here are guide values.



MANUFACTURING:

