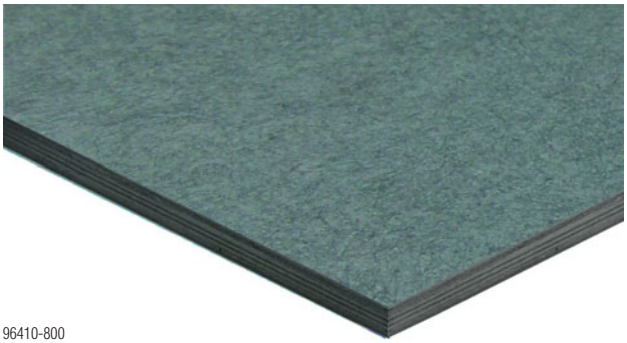
The Formwork Experts.

Xface sheet

Data Sheet



96410-800

The Xface sheet is a large-format birchwood plywood sheet with extremely hard-wearing coating for high fair-faced concrete requirements in wall and slab construction or high requirements in terms of durability for high number of use cycles.

Sheet structure

- High-grade plywood sheet made of Scandinavian birchwood.
- The arrangement of the veneers is crosswise.

Glue-bonding

- 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.

Surfaces

- Side facing the concrete: fibre-reinforced synthetic-resin coating
- Back: Phenolic-resin film coating with 120 g/m².
- Edge sealing: high-grade 2-component edge protection varnish.

Technical data

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.

Thickness and weight:

Nominal thickness [mm]	Layers	Weight [kg/m²]
21	15	15.0

Formats:

Length [cm]	Width [cm]
202	302
	402
	502

Format tolerances:

	Tolerance
Length/Width	±1.5 mm
Perpendicularity	±0.5 mm/m
Straightness of sheet edge	±0.2 mm/m

Mechanical properties (as per Handbook of Finnish Plywood):

Nominal thickness [mm]	E_m [N/mm²]		f_m [N/mm²]		EI [kNm²/m]	
	∥	⊥	∥	⊥	∥	⊥
21	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

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

Number of cycles

Possible frequency of use depends on many factors acting on the formwork sheet. Given optimum conditions of use and correct handling, up to **100 use cycles** (up to 40 use cycles for fair-faced concrete) (guide value) can be achieved.

It is also possible to carry out the first few cycles **without application of a release agent**.

Type of application and concreting results

The sheet has a 'non-absorbent' surface. The extra-hard-wearing coating of the Xface sheets, and the large sheet formats, make it possible to achieve a smooth, uniform concrete surface with only a small number of joints.
The sheets permit easy nailing, screwing and drilling, and have a 2 cm oversize which optimises them for further trimming.
The excellent release properties of the sheet surface mean that for the first few re-use cycles, no concrete release agent is needed.
The synthetic-resin coating is free of phenolic resin. Consequently, there is no staining of the concrete.

The sheet for high fair-face concrete specifications is used in wall and floor-slab formwork.

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 (e.g. Doka-Trenn or Doka-OptiX).
- ➤ Immediately after stripping the formwork, remove concrete residues from the surfaces that were in contact with the concrete.

NOTICE

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.

Note:
Follow the directions in the 'Formwork sheets' User Information booklet!
You can download it here:

www.doka.com/multi-ply-formwork-sheets

www.pefc.org
This product uses materials from sustainably managed forests and controlled sources.
PEFC/06-38-211