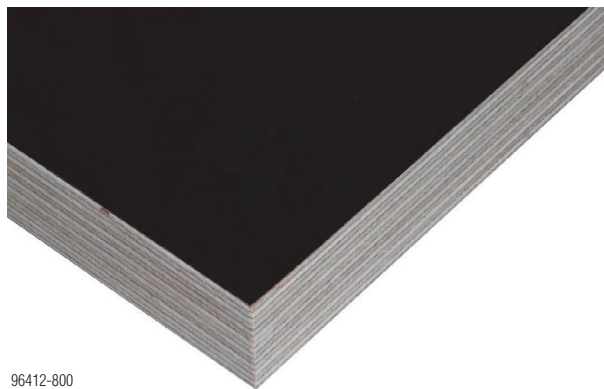


# Frami sheet

## Data Sheet



96412-800

The Frami sheet is a high-grade birchwood-veneer plywood sheet with film coating on both sides, for use in wall formwork systems.

## Sheet structure

- Film-coated plywood sheet made of Scandinavian birchwood.
- The arrangement of the veneers is crosswise (as of a panel height of 2.70 m the arrangement is force-oriented).

## 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

- Both sides phenolic-resin film coating with 220 g per m<sup>2</sup> and side.
- 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  $10 \pm 2\%$  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/m <sup>2</sup> ] |
|------------------------|--------|-----------------------------|
| 15                     | 11     | 10.2                        |

### Formats:

| Length           | Width |
|------------------|-------|
| System-dependent |       |

### Format tolerances:

|                            | Tolerance      |
|----------------------------|----------------|
| Length/Width               | + 0 / - 1.0 mm |
| Perpendicularity           | $\pm 0.3$ mm/m |
| Straightness of sheet edge | $\pm 0.2$ mm/m |

### Mechanical properties (as per Handbook of Finnish Plywood):

| Nominal thickness [mm] | E <sub>m</sub> [N/mm <sup>2</sup> ] |      | f <sub>m</sub> [N/mm <sup>2</sup> ] |      | EI [kNm <sup>2</sup> /m] |      |
|------------------------|-------------------------------------|------|-------------------------------------|------|--------------------------|------|
|                        |                                     | ⊥    |                                     | ⊥    |                          | ⊥    |
| 15                     | 10316                               | 7184 | 41.3                                | 33.8 | 2.78                     | 1.94 |
| 15<br>(force-oriented) | 6500                                | 9490 | -                                   | -    | 1.90                     | 2.80 |

E<sub>m</sub> ... mean flexural modulus of elasticity

f<sub>m</sub> ... characteristic flexural strength

EI ... flexural rigidity

|| ... 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 **80 use cycles** (guide value) in frame formwork can be achieved.

## Type of application and concreting results

The sheet has a 'low-absorbency' surface. The surface consists of a selected face veneer and a high-grade, wear-resistant film coating. As a result, it delivers a smooth concrete finish even after many repeat uses. To meet stringent specifications regarding the concrete finish, the sheets are screwed on from the rear. Sealing any nailing-points, holes, damage etc. can prolong the lifespan of the formwork sheet.

This sheet is used in wall formwork systems.

## 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](http://www.doka.com/multi-ply-formwork-sheets)