

UNIVERSAL FLOOR TECHNOLOGY

STAIRS · FLOORS · INTERIORS

27 years of craft

- length up to 9 m
- width from 16cm to 35 cm, standard is 24 cm
- possibility to make boards of different widths
- individual implementation of each order
- settlement only for the area of the installed floor (without waste)
- optional board thicknesses: 16 mm or 20 mm
- we have a patented system for installation of boards on floor heating
- additionally, we offer transport with installation
- joints of boards with stone floor or tiles without using plugs or slats finishing these contacts
- assembly directly to concrete or on joists (gluing to OSB board)
- finishing: mat, semi-gloss, gloss varnish, oil, oil dying, brushing, pigmenting, patinating
- possibility of scraping
- domestic or exotic wood

FLOOR BOARD CROSS- SECTION

TECHNICAL PHASE

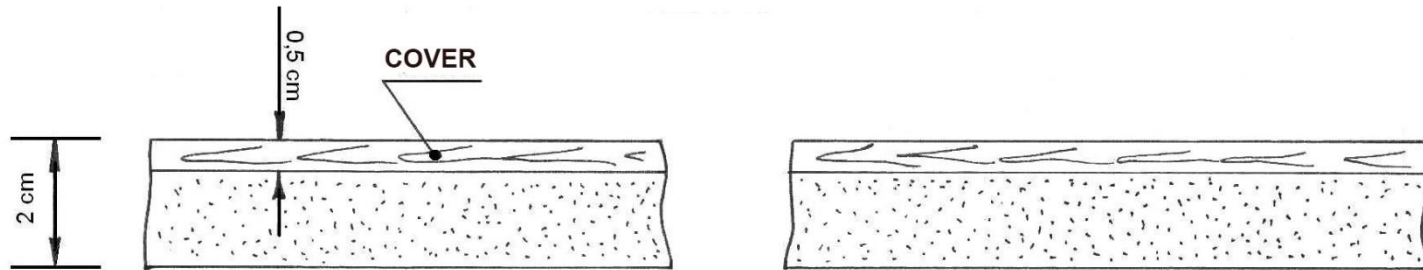
LATCH

PLYWOOD

TECHNICAL PHASE

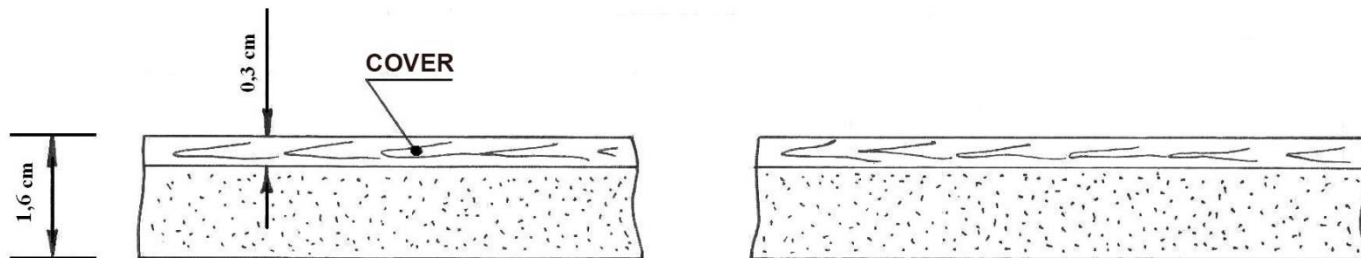
BOARD WITH THE THICKNESS OF 20 mm is made in layer gluing technology. The bottom layer consists of a plywood with the thickness of 15 mm, the external layer is a cover with the thickness of 5 mm of the selected wood type. Plywood maintains

FLOOR BOARD LONGITUDINAL SECTION



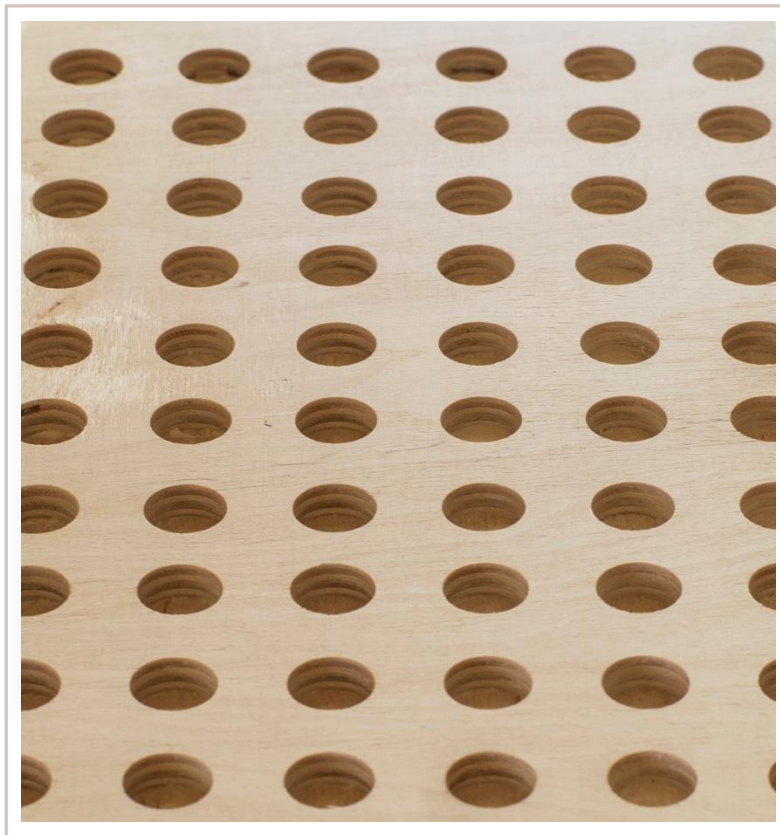
BOARD WITH THE THICKNESS OF 16 mm is made in layer gluing technology. The bottom layer consists of a plywood with the thickness of 13 mm, the external layer is a cover with the thickness of 3 mm from the selected wood type. Plywood maintains stability of the whole structure, such a board is suitable for floor heating without drilling in the plywood

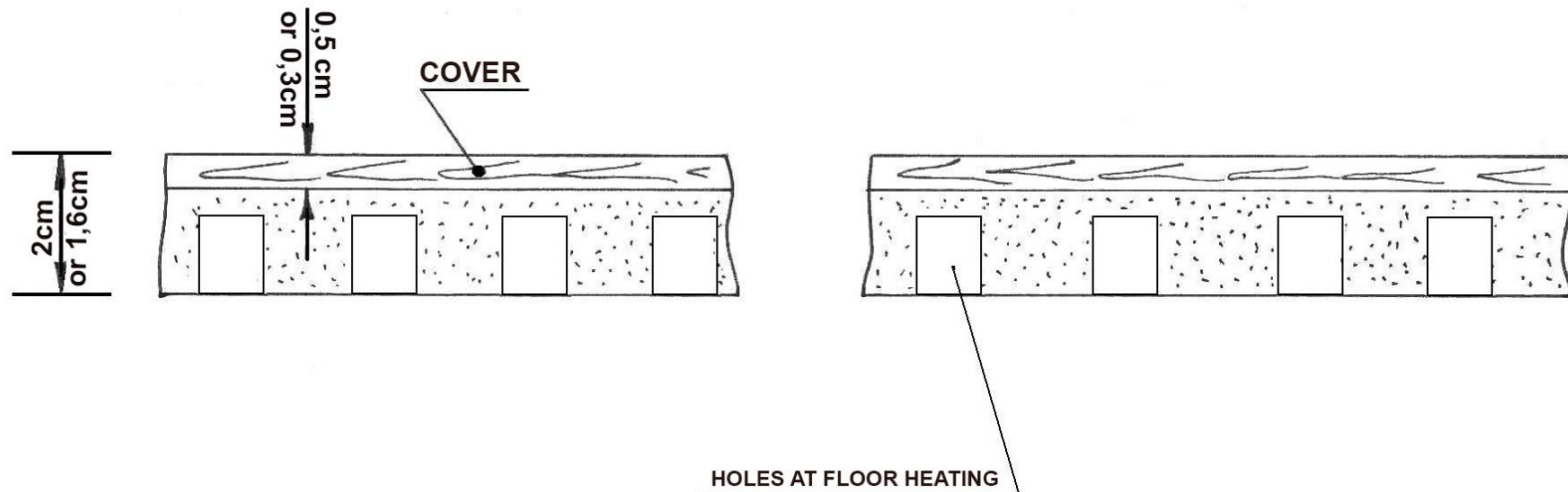
FLOOR BOARD LONGITUDINAL SECTION



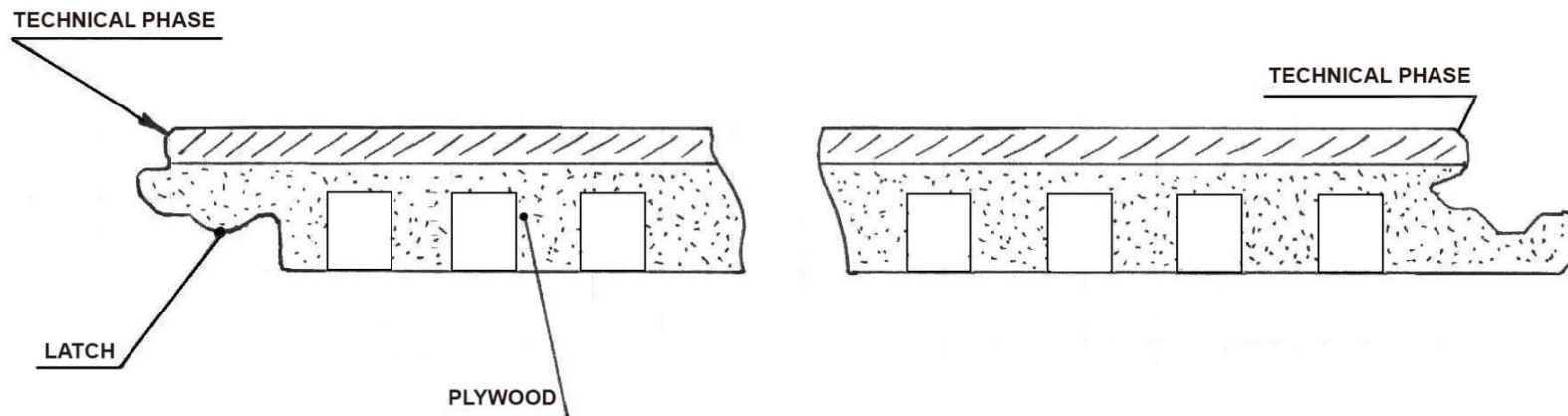
BOARD FOR FLOOR HEATING WITH THE THICKNESS OF 20 mm

- Verified and a patented system of board for floor heating
- Every wood type is suitable for floor heating, since the board is made in layer gluing technology. The bottom layer consists of a plywood with the thickness of 15 mm, the external layer is a cover with the thickness of 5 mm of the selected wood type.
- Plywood maintains stability and conducts heat equally to the external wood layer.
- The board is drilled only in the bottom plywood layer.
- The board can be used for water and electrical heating.
- Temperature on the concrete surface must not exceed 24 °C.
- Before board installation the Client has to present for inspection a certificate of completion of the floor and heating test with a documented entry in a construction book or log





FLOOR BOARD CROSS-SECTION:



Board for floor heating with drilling

Confirmed with tests of tab. 1



Natural University in Poznań

Faculty of wood technology

Department of machine tools and basics for machine construction
Table 1. Heat penetration coefficient for various kinds of floor materials

floor board type	A	B	C	D
MARCHEWKA board, thickness: 20mm without holes	2,61	0,13	4,97	0
MARCHEWKA board, thickness: 20mm, drilled	2,83	0,17	6,03	8,8
Barlinek board, thickness: 15mm	2,86	0,09	3,27	9,6
panel HDF 7mm	4,13	0,11	2,77	58,2

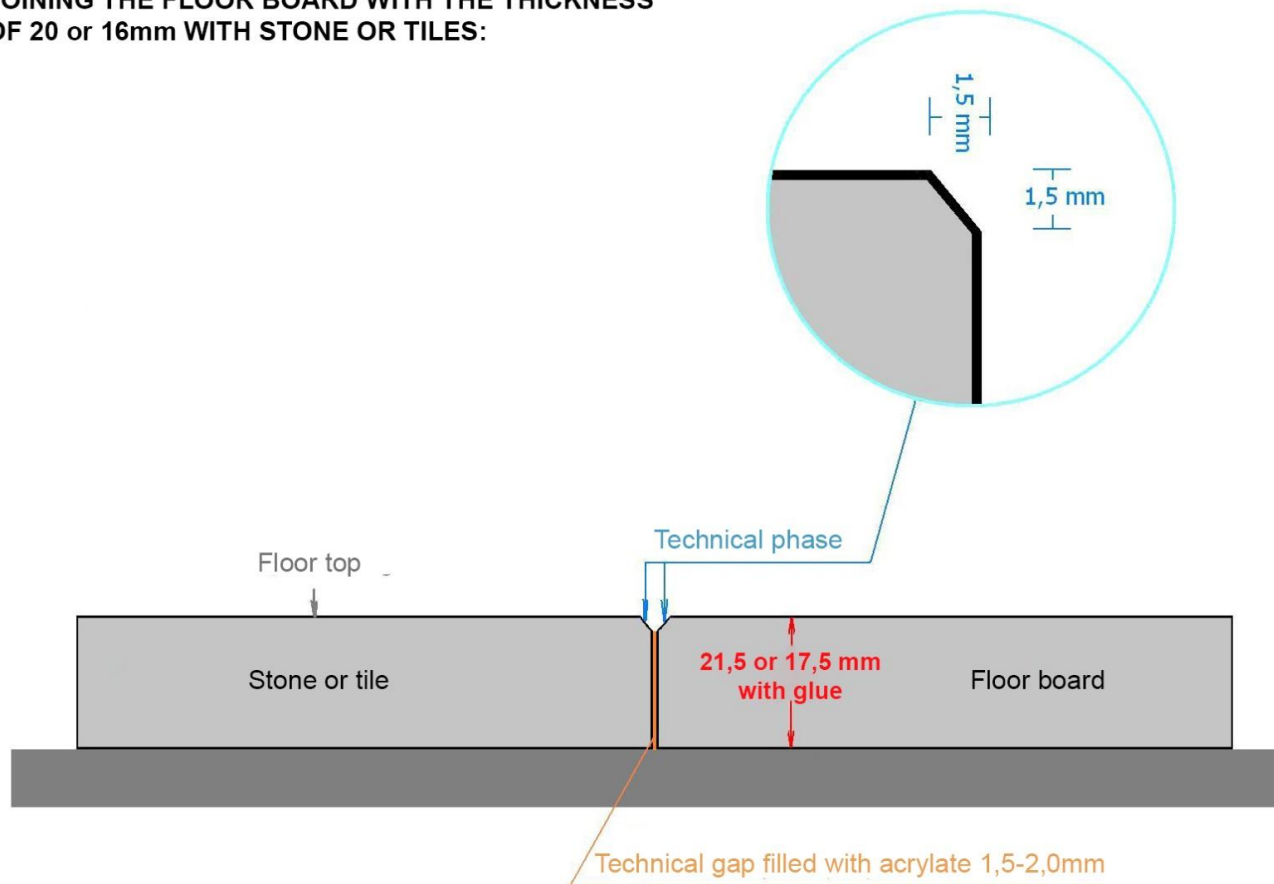
- A - heat conductivity coefficient [$\text{W/m}^2 \times ^\circ\text{C}$]
B - standard deviation [$\text{W/m}^2 \times ^\circ\text{C}$]
C - variability coefficient [%]
D - growth [%]

KIEROWNIK KATEDRY
Obrabiania i Rodziny Konstrukcji Wiskit

dr hab. inż. Piotr Pohl

JOINING MARCHEWKA FLOOR BOARD WITH STONE OR TILES

JOINING THE FLOOR BOARD WITH THE THICKNESS
OF 20 or 16mm WITH STONE OR TILES:



**CAMELEON
DECORATIV**
design & arhitectura

Iftode Universal
sisteme de construcții



Iftode Universal Galati, bld. G. Coșbuc nr. 350, 0236 325382, office350@universalconstruct.ro, www.universalconstruct.ro



**CAMELEON
DECORATIV**
design & arhitectura



Iftode Universal
sisteme de construcții



Iftode Universal Galati, bld. G. Coșbuc nr. 350, 0236 325382, office350@universalconstruct.ro, www.universalconstruct.ro

GRATES FOR TRENCH HEATERS

We offer making grates for trench heaters, that are a sequence of particular boards laid in the room



CONDITIONS FOR TECHNICAL ACCEPTANCE OF THE FLOOR IN THE ROOM FOR INSTALLATION OF FLOOR BOARDS:

- relative air humidity in rooms where the board is mounted must be in the range of 45 – 55%, and if these parameters are not met, cracks and bulges may appear on the surface
- owing to technical conditions of wood and glue, the ambient temperature must not be lower than 18°C
- humidity of the base must be between 1.8 – 2.0%
- maintain horizontal evenness of floors . Maximum unevenness /bulges and cavities/cannot exceed the tolerance + -1.5mm 3 m of staff length
- the cement flooring cannot crack, fall apart or get worn. There can be no cracks
- in the case of floor heating the Client will present for inspection a certificate of completion of the floor and the heating test with a documented entry in a construction book or log
- concrete base under our floor boards- C-Class 12/15 OR C 20/25

Installation of floor boards involves in sticking to professionally made bases:

- cement or anhydrite casting
- from wooden board OSB, MDF, plywood,

we use two-component polyurethane glues TEC PU 2K PLUS by BAUTEC.

Installation of wooden floor boards can begin after completing all construction works and finishing works (before the final painting). The room must be dried and the ventilation system must be functional. Internal doors should be installed after floor installation (unless the manufacturer of the doors advises otherwise)