

# KARDO THERMOPANEL

\* \* \* floor finish without expansion joints \* \* \*

## TECHNICAL DOCUMENTATION

### Product Description:

**KARDO Thermopanel** is an insulation board with an XPS core, it is reinforced with a glass fibre mesh and covered with a cement polymer.

### Application:

The **KARDO Thermopanel** system has been designed to be used as a thermal insulation material. Floor coverings, like ceramic tiles, carpet, etc can be put directly on top of KARDO Thermopanel. The system can be mounted on a levelled construction base with no necessity of using a concrete screed. In this way we get a durable surface with sound and thermal insulation. Using KARDO Thermopanel no expansion joints on large surfaces have to be done (e.g. on terraces). They are recommended for heating mat or heating cable underfloor heating systems.

### Product Features:

**KARDO Thermopanel** is exceptional durable and easy to cut, it can be installed outdoors and in damp areas and has insulation properties and the ability to provide sound insulation. It can be fixed to tiles or any other kind of floors surface.

### Preparing the base:

The building base must be load-bearing, stable, levelled and dust and grease free. Old layers of oil and paints must be removed.

### Installation:

#### *a) concrete floor*

Insulation boards should be held down to the floor base with flexible adhesive on a levelled construction base (concrete or reinforced concrete) all the joints between the boards must be staggered and sealed by made using a minimum 10 cm width mesh joint tape. The mesh should be held down using flexible adhesive. Floor finishes like tiles, carpet, vinyl, suspended wooden floors or other floor materials can then be laid directly on top of the boards.

#### *b) wooden floor*

The boards should be laid onto a levelled wooden base, all the joints between the boards should be staggered. The boards must be held down using a minimum of 5 steel screws and washers per one board. Other installation work should be carried out the same as a concrete floor.

### Approvals:

Declaration of conformity for insulation boards XPS.  
Polish Law about building materials of 16 of April 2004  
Dz.U. Nr 92 poz 881, art.10

### Dimensions:

Length x Width:.....1250 x 600 mm (+/-10 mm)  
Thickness:.....10, 22, 32, 42 mm (+/-2 mm)

Our system allows us to create boards with other dimensions and thicknesses (only on order).

### Technical data:

Weight (10 mm):.....2,00 kg/pcs. (+/- 10%)  
(22 mm):.....2,20 kg/pcs. (+/- 10%)  
(32 mm):.....2,40 kg/pcs. (+/- 10%)  
(42 mm):.....2,60 kg/pcs. (+/- 10%)

Thermal conductivity: .....< 0,034 W/mK  
Water absorption (24h):.....< 0,1%  
Density:.....> 34 kg/m<sup>3</sup>  
Compressive strength at 10% deflection:.....> 300 kPa  
Tensile strength:.....> 600 kPa  
Reaction to fire:.....Euro class E  
Working temperature:.....-50°C to +75°C  
Package contains: (10 mm).....12 pcs.  
(22 mm).....6 pcs.  
(32 mm).....4 pcs.  
(42 mm).....3 pcs.



**KARDO Thermopanel** - insulation board  
1250 x 600 x 10

## DISTRIBUTOR:

