

## Advantages of Thermoshell



Low cost



Environmentally friendly



Light weight



Non-flammable



Easy to assemble



Dust-free

### We offer:

- Technology for the production of insulating boards
- Custom development of thermal insulation elements
- Development of waste management, including fibrous waste

# THERMAL INSULATION PLATES — FACIAL PLATES — FURNACE PLATES — FIREPLACE PLATES

**Thermoshell**  
**Thermal insulation**  
**plates made of**  
**waste materials**

## Properties of Thermoshell

Properties competitive with commercial applications (plates).

Thermal conductivity below 0.15 W/mK, . Competitive solutions in the range of 0.25 - 0.4 W/mK.

Porosity in the range of 35 - 60%.

Flexural strength 6 - 17 MPa.

Composition of the mixture up to 70% of post-production or post-demolition waste, depending on the source of waste.

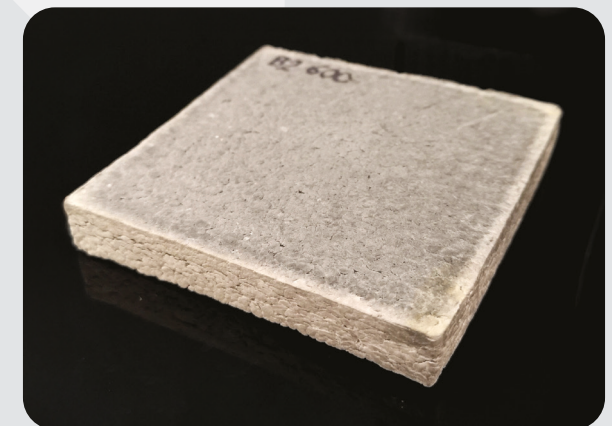
Parameter	Value
Density [Mg/m <sup>3</sup> ]	1,30
Porosity [%]	51
Absorbability [%]	39
Thermal conductivity [W/mK]	0,14
Flammability	Non-flammable



Thermoshell before thermal treatment

## Main features of Thermoshell

- Temperature resistant up to 1100 °C
- High flexural strength
- Low thermal conductivity
- Lightweight



Thermoshell after thermal treatment