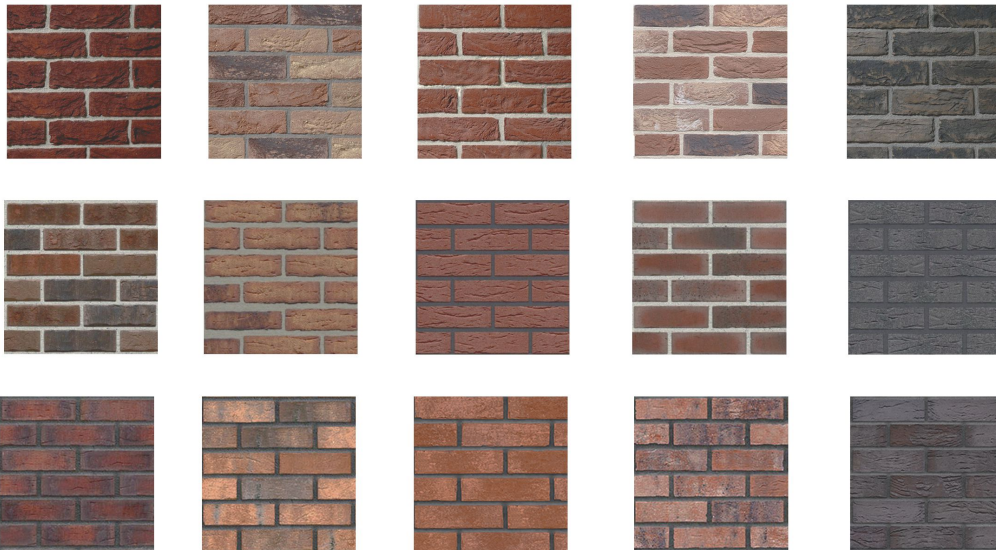


The advantages of mathermic®

- Modules are made of clinker tiles, which are resistant to: mechanical damage, absorption, UV radiation, chemical and biological factors (e.g. Mould)
- Easy installation in harsh weather conditions on different surfaces. Can be used on brick, metal and concrete buildings.
- Can be combined with other insulation systems (e.g. Styrofoam)
- Very low absorption of both polyurethane foam and clinker.
- The system doesn't propagate fire (the classification applies to the product installed on a non-flammable substrate of at least B-s1, d0 class according to PN-EN 13501-1).
- Dimensional stability of mathermic elements. The polyurethane core is rigid and resistant to compression.

A wide colour palette

The mathermic® modules are available in a wide range of colours and textures of clinker tiles. This system traditional style may resemble a classic brick wall, while elegant whites, greys and blacks perfectly match the modern architectural trends.



mathermic®

orimat.

A modern clinker thermal insulation facade system



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What is mathermic®?

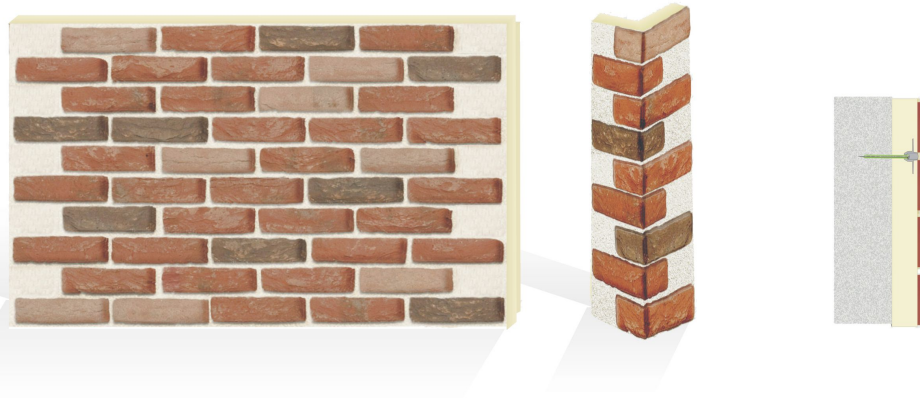
It is a thermal insulation system with clinker composed of two layers:

- Thermal insulation made of rigid polyurethane foam,
- Decorative facade made of clinker tiles.

The clinker tile is permanently embedded in the polyurethane foam.

The modules can be used in both newly built constructions and thermal insulation of existing buildings.

The system can be installed on walls made of any material (bricks, breeze blocks, concrete blocks etc.)



Technical specification

- Available thicknesses 40, 50, 60 mm
- Joint weight between clinker tiles: 12 mm
- Thermal conductivity $\lambda=0,023 \text{ W/mK}$ for $10^0 \text{ }^\circ\text{C}$

Dimensions

| Clinker tile (mm) | Module (mm) | Corner (mm) |
|-------------------|-------------|-------------|
| 240x71 | 1260x830 | 246x830 |
| 250x65 | 1310x770 | 256x770 |
| 215x65 | 1135x770 | 221x770 |
| 290x52 | 1208x768 | 246x640 |
| 240x65 | 1260x770 | 246x770 |

By using mathermic®, you save:



Energy

Very good insulating of polyurethane, it means, at least 30% lower energy consumption compared to other insulation materials.



Money

Significantly lower energy bills. Durable elevation - no periodic costs of plaster renovation or painting.



Space

Thinner insulation means thinner walls -> smaller footprint -> smaller roof surface -> shallower recesses = more sunlight at home



Time

Quick installation. Shorter building time or renovation.

Installation

The modules can be installed easily and quickly.

More information can be found at www.mathermic.eu.



Energy consumption when using the mathermic®

| Type of wall | Heat transfer coefficient of the wall UK | Heat transfer coefficient of the wall UK + mathermic 60 | Heat transfer coefficient of the wall UK + mathermic 80 | Heat transfer coefficient of the wall UK + mathermic 100 |
|--|--|---|---|--|
| Full ceramic brick, thickness 250 mm | 2,02 | 0,40 | 0,30 | 0,21 |
| Hollow ceramic brick, thickness 250 mm | 1,62 | 0,38 | 0,29 | 0,20 |
| Cellular concrete block, density 600 kg/m ³ , thickness 240 mm | 1,03 | 0,34 | 0,26 | 0,19 |
| Annual energy saving owing to the mathermic® system on a full ceramic brick wall with thickness of 250 mm and an area of 100 m ² , with median yearly temperature 9,1 °C (for Berlin). | | 15423 kWh | 16901 kWh | 17238 kWh |