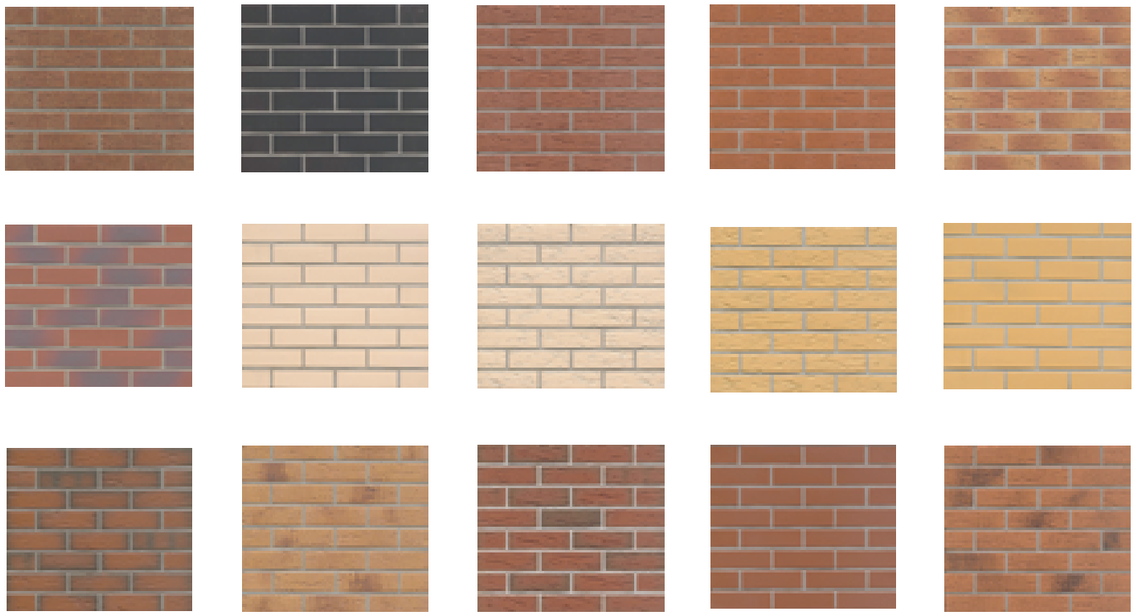
The advantages of mathermic®

- Modules are made of clinker tiles, which are resistant to: mechanical damage, abrasion, UV radiation, chemical and biological factors (e.g. mould).
- Easy installation in harsh weather conditions and on different surfaces.
- Can be used on brick, metal and concrete buildings.
- Can be combined with other thermal insulation systems (e.g. with Styrofoam).
- Very low absorbability of both polyurethane and clinker.
- The system does not propagate fire (the classification applies to the product installed on a non-flammable substrate of at least A2-s3, 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

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



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mathermic®

A modern clinker thermal insulation facade system

INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY

EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND

Grants for innovation. We Invest in your future.
Free product

What is mathermic®?

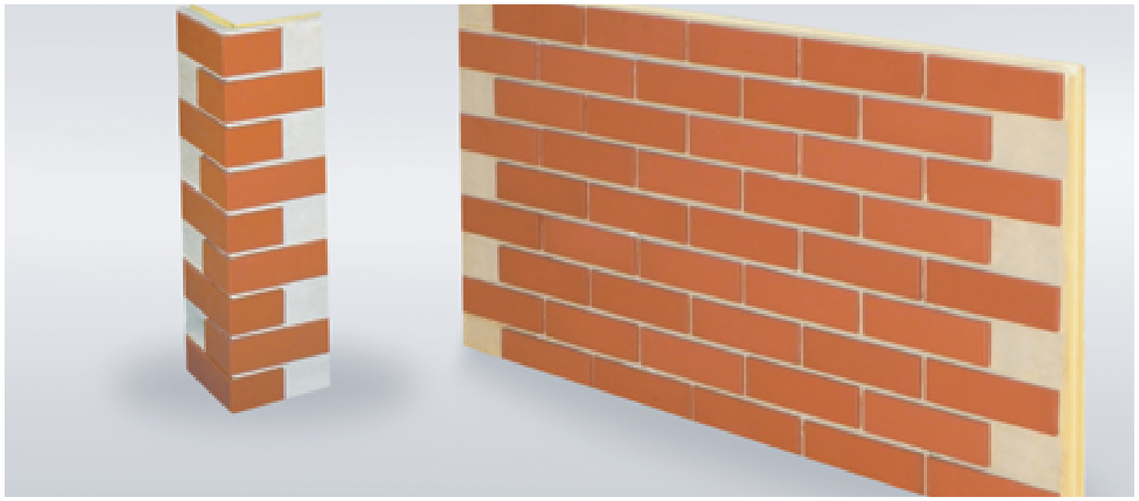
It is a termal insulation system with clinker composed of two layers:

- 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 in modernisations and thermal insulation of existing buildings.

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



Technical specification

- Available thicknesses: 40, 60, 80, 100 i 120 mm
- Joint width between clinker tiles: 12 mm
- Thermal conductivity: λ = 0.025 W/mK for 10° C

Dimensions

Clinker tile (mm)	Module (mm)	Corner (mm)	Number of rows
240 x 71	1386 x 738	738 x 246	9
250 x 65	1441 x 693	693 x 256	9
215 x 65	1248 x 693	693 x 221	9

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 instalation.
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®system

Type of wall	Heat transfer coefficient of the wall Uk	Heat transfer coefficient of the wall + mathermic 60	Heat transfer coefficient of the wall + mathermic 80	Heat transfer coefficient of the wall + mathermic 100	Heat transfer coefficient of the wall + mathermic 120
Full ceramic brick, thickness 250 mm	2,02	0,40	0,30	0,25	0,21
Hollow ceramic brick, thickness 250 mm	1,62	0,38	0,29	0,24	0,20
Cellular concrete blocks, density 600 kg/m3, thickness 240 mm	1,03	0,34	0,26	0,22	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 m2, with median yearly temperature of 9.1°C (for Berlin).		**15468 kWh**	**16423 kWh**	**16901 kWh**	**17283 kWh**