



BAUTER[®]

effective thin-layer thermal insulation

up to **-50%** on the costs of heating
and cooling the building



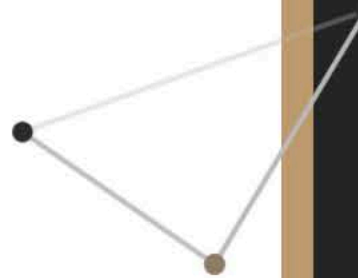
ABC Bauter

why is it worth it?

Badly selected insulation can cost thousands of zlotys. These are unnecessary expenses **that can be avoided.**

- When heat escapes through the walls, a badly insulated building catches fungus. **You bear the costs associated with it.**

Get to know Bauter. Find out how to save on heating and cooling costs the next day.





Groundbreaking

BAUTER[®]

technology



Groundbreaking

BAUTER[®]

technology

In our laboratory, we tested a technology that was initially **used in the space industry.**

We decided to use the recipe tested in **extreme conditions** in a thermal insulation coating.

We placed **polymer microspheres with a diameter of 4µm.** The diameter of one hair is about 60µm. It's very little!



Groundbreaking

BAUTER[®]

technology

The interconnected microspheres formed an effective trap for electromagnetic waves ranging from UV through visible light to far IR.



Now imagine such connected microspheres on the façade. Their cooperation is a sealant protective shield on the building against solar radiation. **This is how Bauter works.**



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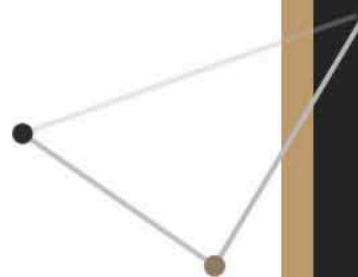
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> how it started?

> how it works?





How **BAUTER**[®] works?

Bauter works on the principle of a Heat Shield that reflects radiation. Has **the highest TSR** (Total Solar Reflectance) **on the market.**

93% TSR

Total Solar Reflectance coefficient
Bauter reflects over 93% of solar energy
from the facade and roof.
It doesn't let her in.

Pure polymers

Polymer microspheres
In Bauter systems, we use polymer
microspheres that have a very high level
of thermo-reflectivity.





BAUTER[®] in the summer

Heat in a non-air-conditioned building is a NIGHTMARE. The heat invades mercilessly, it spares no one. You have a choice: sweat or install air conditioning. **And electricity costs continue to rise.**

How to make it cool
without paying more?



BAUTER[®] in the winter

In winter, heat escapes outside. The worst is if the walls are poorly insulated. The heat literally flows out through the cracks (thermal bridges).

And you lose a lot of money on heating. Thousands of zlotys every year. And you can otherwise...



BAUTER[®]

In summer: pleasantly cool
In winter: warm

And in your wallet, up to 50% savings on heating
and cooling costs.

Don't insulate with air anymore!

Traditional materials



They consist of elements.

Like a block building. And they have joints.

Joints are breaks. It is through joints that heat and cold pass.

And money flies out.



Here air is the main insulator.

The performance of traditional materials depends on the ambient temperature, humidity and the date of manufacture of the material itself.

BAUTER®



It's one sealed coating.

There are no breaks. Does not create thermal bridges.

It does not let heat and cold through.

It reflects radiation like a protective shield.



Bauter insulates by blocking energy.

Reflects 93% of heat energy. It is resistant to weather conditions, heat, cold, rain, snow and UV radiation.



Surround the building with a Heat Shiel

Pleasantly cool in summer and pleasantly warm in winter. And in your wallet, up to 50% savings on heating and cooling. That's what Bauter will give you.

Surround the building with a protective shield that will generate savings in the household budget. Our customers enjoy lower bills from the first month after the application.



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> how it started?

> how it works?

> where to use?





Where to use
BAUTER[®]

Use Bauter where heat escapes.
Outside and inside the building



BAUTER OUTSIDE

For outside
to insulate the façade
to remove thermal
bridges



BAUTER ROOF

For roofs,
to insulate the roof so
that it does not
overheat



BAUTER INSIDE

For inside,
to insulate the walls
to keep the heat inside



BAUTER FLOOR

On the floor,
to insulate the floor so that
heat does not escape
underneath



BAUTER WOOD

For wood,
protects and insulates
wooden surfaces



BAUTER INVISIBLE

For monuments



BAUTER THERMAL MASS

For industry,
reduces energy losses
in industry

BAUTER®



Facade

thermal insulation

Bouter thermal insulation is a guarantee of tight insulation without thermal bridges. Bouter is impermeable to heat and water, but allows the walls to breathe.

In the summer lower temperature inside the building, and lower air conditioning costs.

In the winter you do not lose heat, lower heating bills.



BAUTER® OUTSIDE

Thickness: 0,5-1,5 mm

Use:

Concrete, plaster, cellular concrete, sandwich panel, brick, structure



Temperature under control

- stops overheating of the walls
- removes thermal bridges from the building
- does not release heat



Controlled humidity

- facades do not absorb water
- dries the walls - dry foundations
- protects against mould, fungi and efflorescence
- the building does not get dirty, it does not get covered with moss



Comfort and durability

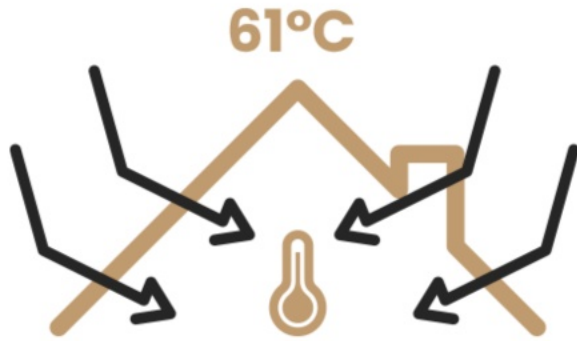
- seals microcracks
- facade resistant to weather conditions
- easily washable surface
- color durability for years



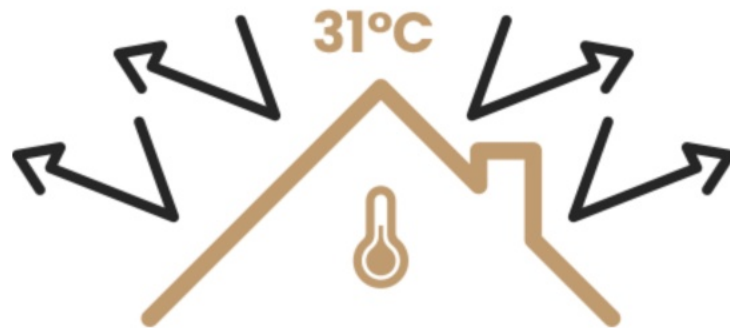
Bills? Down!

We generate up to 50% savings on heating and cooling costs.
Less CO₂ emissions.

BAUTER®



Roof surface temperature **without**
using BAUTER ROOF



Roof surface temperature **using**
BAUTER ROOF

Roof

thermal insulation

Bauter reflects thermal radiation and effectively **prevents overheating of the roof**. The roof does not reflect the temperature inside.

In the summer lower temperature inside the building, and lower air conditioning costs.

In the winter you do not lose heat, lower heating bills.



BAUTER[®] ROOF

Thickness: 0,5-1 mm

Use:

Sheet metal, roofing felt, tile, metal tile, shingle, membrane, concrete tile



Temperature under control

- we embrace overheating
- cool attic in summer
- high thermal comfort in winter



Tight roof

- secures and protects the roof
- eliminates micro-cracks and seals the roof
- creates a waterproof protective layer



Light!

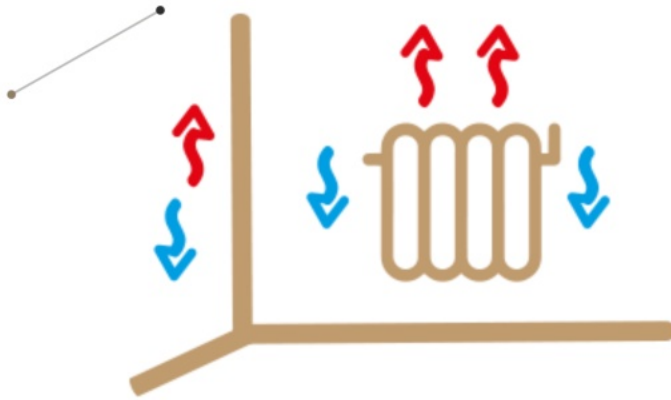
- does not burden the roof, very light layer



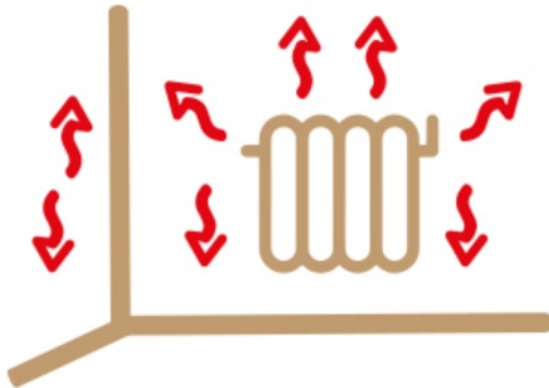
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BAUTER®



walls painted with **standard paint**



walls with the application of the
BAUTER INSIDE coating

Thermal insulation of internal walls

Live beautifully and pay less. Bauter for the interior will prevent the heat from escaping outside. BAUTER INSIDE is paint and insulation in one.

Do you know the heat reflecting mats that are sometimes installed behind the radiator? Imagine that you have the whole interior lined with them. This is how Bauter works. Only you don't line the house with mats. You apply Bauter like paint and **you have the same warmth everywhere.**





BAUTER[®] INSIDE

Thickness: 0,5 mm

Use:

concrete, plaster, plasterboard, OSB board, brick



Temperature under control

- warm in winter, pleasantly cool in summer
- removes thermal bridges
- equalizes the temperature in the room
- maintains a constant level of air humidity



Product for allergy sufferers

- reduces the formation of mold and fungi
- limits the movement of dust and dirt



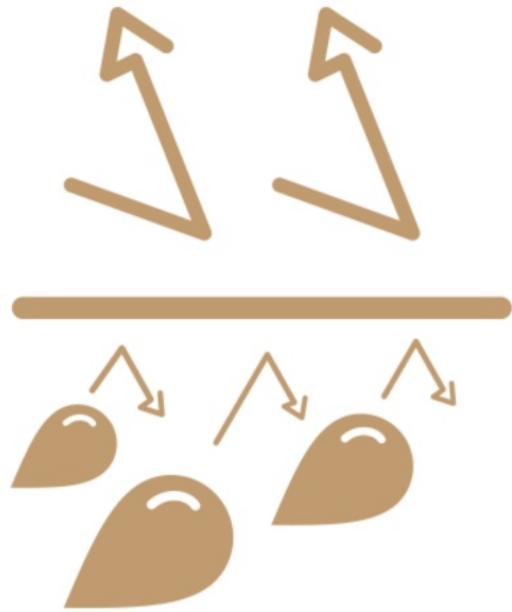
Designer interior

- a wide palette of colors
- color durability for years
- premium finish



Bills? Down!

We generate up to 50% savings on heating and cooling costs.
Less CO₂ emissions.



Floor

Insulation

BAUTER FLOOR reduces the amount of thermal energy escaping into the floor and foundations and creates a barrier for water.

The waterproofing properties of the coating prevent the absorption of groundwater and rainwater.



BAUTER® FLOOR

Thickness: 1–2 mm

Use:

floor, plaster, concrete, OSB board



Temperature under control

- reduces heat loss
- seals the substrate
- warm floor effect



Waterproof barrier

- cuts off the penetration of moisture from the substrate
- eliminates the formation of mold and fungus
- protects and preserves



Bills? Down!

We generate up to 50% savings on heating and cooling costs.

Do you like going barefoot?



Wood

thermal insulation

Protects and protects wooden surfaces, giving them thermal insulation properties.

Creates a barrier to water, UV radiation and weather conditions.





BAUTER® WOOD

Thickness: 0,3-0,5 mm

Use:

wooden facades, log walls, saunas,
wooden shingles, wood



Temperature under control

- reduces heat loss
- removes thermal bridges
- protects against moisture



Effective wood protection

- protects surfaces
- resistant to weather conditions
- slows down the aging process of wood



Bills? Down!

We generate up to 50% savings on heating and cooling costs.

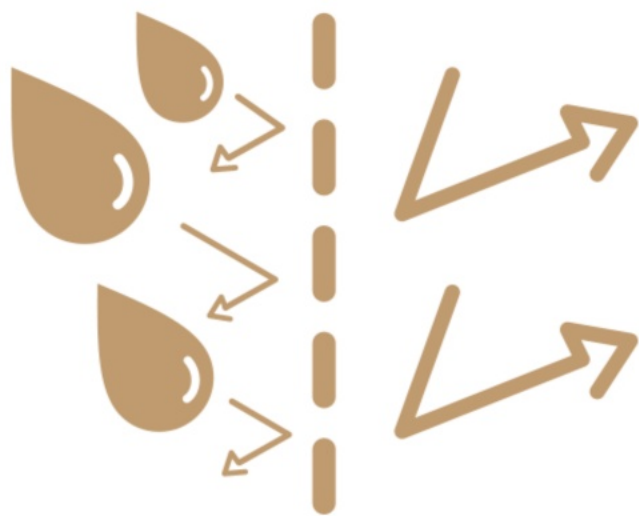
We preserve the surface.



Special use of
BAUTER[®]

protects where others fail.

BAUTER®



Thermal insulation **for monuments**

Transparent Bauter insulation protects the building against ultraviolet (UV), infrared (IR) radiation and weather conditions.

Does not change the color and structure of the façade.





BAUTER® INVISIBLE

Thickness: 0,3 mm

Use:

brick, stone, clinker, architectural concrete, wood



Temperature under control

- reduces heat loss
- removes thermal bridges
- reduces façade overheating



Protects against degradation

- It protects facades, walls and substrates against degradation
- resistant to weather conditions



Invisible Coating

- transparent coating - ideal for monuments and buildings that cannot have visible changes

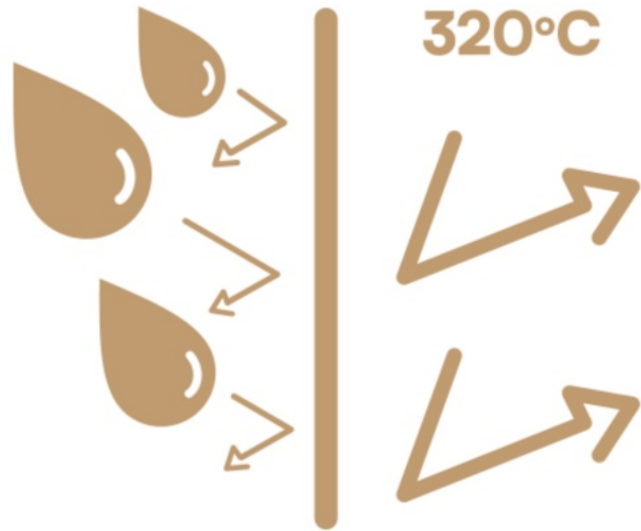


Bills? Down!

We isolate where others fail!

We protect historic buildings.

BAUTER®



Thermal insulation for industry

BAUTER THERMAL MASS is a surface insulation with a temperature of 320°C. It achieves high thermal insulation properties for the insulated object, i.e. pipes, valves, fittings, screw connections, etc.

It allows you to isolate hard-to-reach places where traditional insulation methods are not available.



BAUTER® THERMAL MASS

Thickness: 1-5 mm

Use:

pipelines, sea containers, sandwich panels, cold stores, freezers, metal tanks, furnaces, machines, ventilation ducts



Temperature under control

- reduces heat loss
- removes thermal bridges
- increases the efficiency of heating devices



Effective protection

- protects hot surfaces (OHS)
- simple and quick repairs of mechanical devices



Bills? Down!

We generate up to 50% savings on heating and cooling costs.

Improves the energy efficiency of devices.



ABC Bauter

why is it worth it?

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Get to know Bauter. Find out how to save on heating and cooling costs the next day.

> how it started?

> how it works?

> where to use?

> benefits?





Benefits

BAUTER[®]

15 reasons why you will say goodbye to
traditional insulation today

1

Great saving

up to -50% of heating and cooling costs

Accounts under control. **You pay less for electricity and heat because you need less of it.**

in BAUTER buildings your heat pump, air conditioning, gas furnace (heating source) achieve much higher efficiency, consume less energy.

Every 1°C of electric heating or cooling **is 7%-10% energy savings.**

You immediately reduce your heating and cooling bills.






BAUTER[®]

thermal comfort

2

No thermal bridges



Tight insulation of thermal bridges. A thermal bridge is a place where the continuity of a building's thermal insulation has been interrupted. In such a place, energy will quickly escape to the outside. Through tight insulation of thermal bridges, we eliminate energy losses.

3

Temperature under control

Temperature increase in heated rooms. Buildings in which the Bauter coating has been applied reduce the heating source settings by up to 5°C down, thus maintaining the set temperature inside the heated room.

4

Greater thermal comfort

Perfect temperature in summer and winter. Thermal comfort in insulated rooms increases already on the second day. The temperature is evenly distributed, it is the same at the floor and at the ceiling






BAUTER[®]

Insulation from above


5 Attic without heat!



In Poland, 8 out of 10 attics are overheated in the summer. The sheet metal reaches a temperature of up to 85°C! Much of this temperature is transferred to the interior. Bauter does not allow the roof to overheat, because the temperature of the sheet does not exceed the ambient temperature.

6 Leak-free roof

The flexible layer of the coating eliminates and seals micro-cracks. Bauter creates a waterproof protective layer through which water does not penetrate the interior.



BAUTER[®]

resistant and durable

7

For every surface

You put it where the heat escapes.
Quick application indoors, on facades,
on the roof.

8

Protects against moisture

A waterproof layer on the surface of the
insulated substrate prevents the
formation of mold and fungi. **Moisture**
does not reach the walls and foundations
of the building due to the vapor
permeable properties of the coating.

9

Durable protective layer

Bauter coatings do not degrade,
are resistant to weather conditions,
cracks and color loss.

High surface tension reduces
the adhesion of dust and dirt.

**The Bauter protects against the
spread of fire.**




BAUTER[®]

design and style

10

**Modern
building**



You live beautifully the way you like.
Nice and aesthetic finish
in premium standard.

11


**The color
you like**

You choose the color to your taste.
You choose from 52 available colors.

12

**Allergy
friendly**

Ecological insulation made of organic
components, which reduces the
movement of dust and the formation
of mold and fungi.
Bauter maintains a constant level of
air humidity.






BAUTER[®]
it's easy!

13

**Quick insulation
of the building**



Bauter coatings are sprayed with paint units, which saves time and money during installation.

14


**ECO friendly
building**

It reduces CO₂ emissions to the atmosphere by reducing the demand for thermal energy. Bauter supports low-emission construction.

15

**The answer
to the needs of
the thermal
insulation market**

An innovative and at the same time quick look at the thermal modernization of buildings that want to meet current energy efficiency standards. Bauter insulates where others fail.





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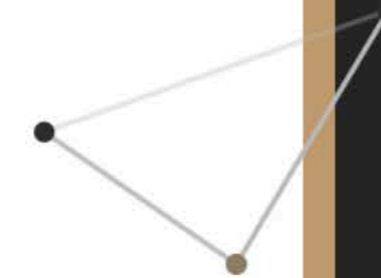
➤ how it started?

➤ how it works?

➤ where to use?

➤ benefits?

➤ what does the set up look like?





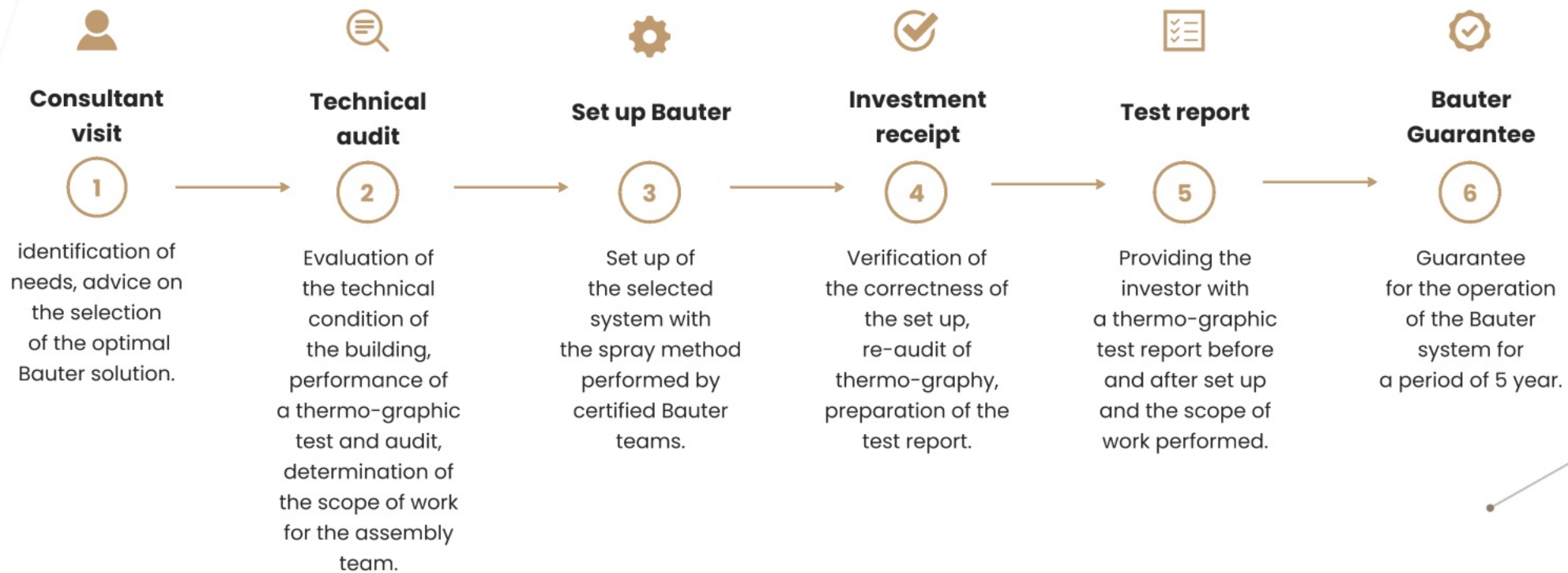
Set up

BAUTER[®]

simple set up in 6 steps

BAUTER® in 6 steps

We take care of professional performance of insulation
- only by certified teams.



A thermal imaging photograph of a two-story house at night. The image shows heat signatures in various colors: red and yellow for warmer areas like windows and doors, and blue and green for cooler areas. A vertical color scale bar is visible on the right side of the image, ranging from dark blue at the bottom to red at the top. The house has a prominent chimney and a balcony.

Don't take our word for it!

Test before and after thermal imaging camera

We say check, and you know how much you gain.

We do a test before and after application.

You know where the thermal bridges were and you can see exactly how we removed them.

The relief is 100% transparent!



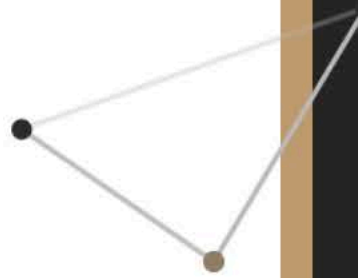
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- how it started?
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 - where to use?
 - benefits?
 - what does the set up look like?
 - certificates, awards



Termoizolacja thermal insulation

BAUTER®

Tests, approvals, certificates

CE certificate

European Health,
Safety and Environmental
Conformity Mark

TSR Test

Examination of energy reflectance,
including infrared, which is
mainly responsible for heating.

Non-fire spreading (NRO rating) Test

A document confirming
the non-spreading of fire.

Hygienic certificate (PZH)

A document confirming the
compliance of the material
with applicable safety standards.

CAM certificate

A document confirming
the eco-friendliness of the material
and its neutral impact
on the environment.

Fire classification Bs1d0

flammability certificate:
non-flammable, non-smoking,
non-drip product.

Salt spray test

document confirming the resistance
of the material to salt.

Water absorption test

a document confirming the low ability
of the material to absorb moisture
from the environment.

The aging chamber test

test confirming high resistance
to weather conditions (UV)
- material aging test.

Vapor permeability test

Test confirming the ability
of the material to pass water vapor,
i.e. moisture.

Adhesion test

A test to determine the high
adhesive strength between
two surfaces.

Abrasion test

Test confirming the possibility
of wet scrubbing
of the material.



Termoizolacja thermal insulation

BAUTER®

Latest Awards

**Golden pillar
of construction**



International
Construction Fair
Bielsko Biala

2022

**Consumer gold
medal**



Construction Fair
Budma 2023
Poznań

2023

**Award
for innovation**



Construction Fair
Budma 2023
Poznań

2023

**Ambassador
of modern technology**



Silesian Chamber
of Construction
Katowice

2023




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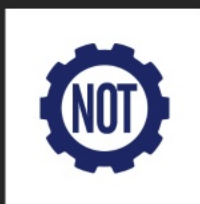
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 - > certificates, awards
 - > partners



Partners

BAUTER[®]

We cooperate



Federation of scientific
and technical associations,
Łódź Council



Launching a new
household appliance
product on the
market



British Board
of Agreement



Technical University
of Łódź



Tests to improve
the insulation
of garage doors



Łukasiewicz
research network



ABC Bauter

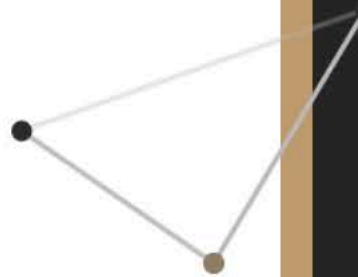
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 - application



Application

BAUTER[®]


in business and industry



Where works

BAUTER®

Construction, heating, refrigeration,
agriculture, industry, transport



Construction

residential,
multi-family,
sacral, office



Heating – refrigeration

boiler rooms,
pipelines, valves,
cold stores,
freezers, storage
halls



Agriculture

chicken coops,
mushroom farms,
forests,
outbuildings




Industry

warehouses,
production plants,
boiler rooms,
pipelines, furnaces,
tanks, valves



Transport

refrigerators,
freezers, containers,
buses, trucks





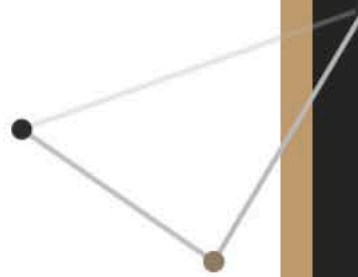
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 - projects



BAUTER[®]

Our projects

These buildings are already
saving on heating and cooling

Our projects

BAUTER[®]



Oleśnica

Residential building,
Thermal insulation of the building façade.

The Bauter OUTSIDE System was used.



Wrocław

Residential building,
Thermal insulation of the building façade.

The Bauter OUTSIDE System was used.

Our projects

BAUTER[®]



Siedlce

Roman Catholic Church of Saint Joseph,
Thermal insulation of the interior
of the church.

The Bauter INSIDE System was used.



Imielin

Roman Catholic Church of Our Lady of the
Scapular, Thermal insulation of the interior
of the church.

The Bauter INSIDE System was used.

Our projects

BAUTER[®]



Krosno

Valve and hot water pipes, external thermal insulation of valves and pipes.

The Bauter THERMAL MASS System was used.



Warszawa

Hot oil tank, reduction of tank surface temperature.

The Bauter THERMAL MASS System was used.

Our projects

BAUTER[®]



before



during project



today

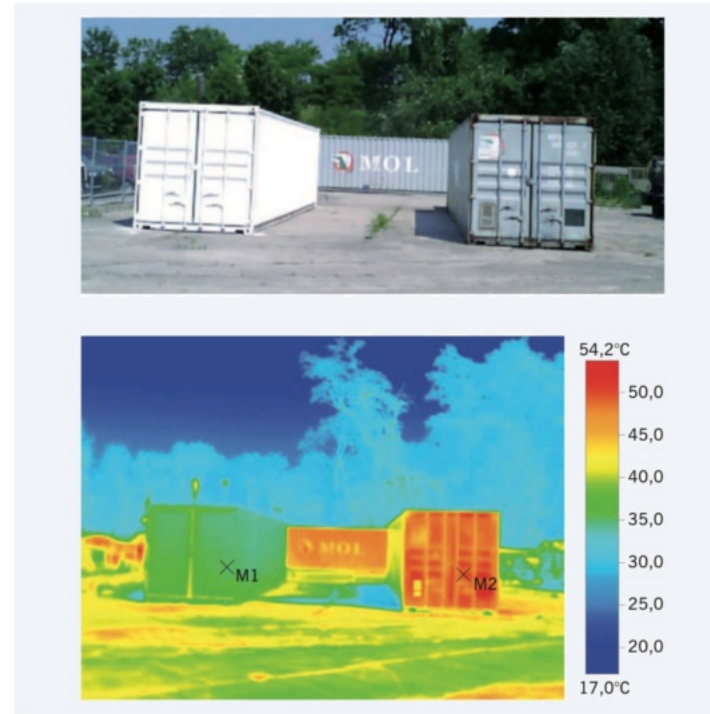
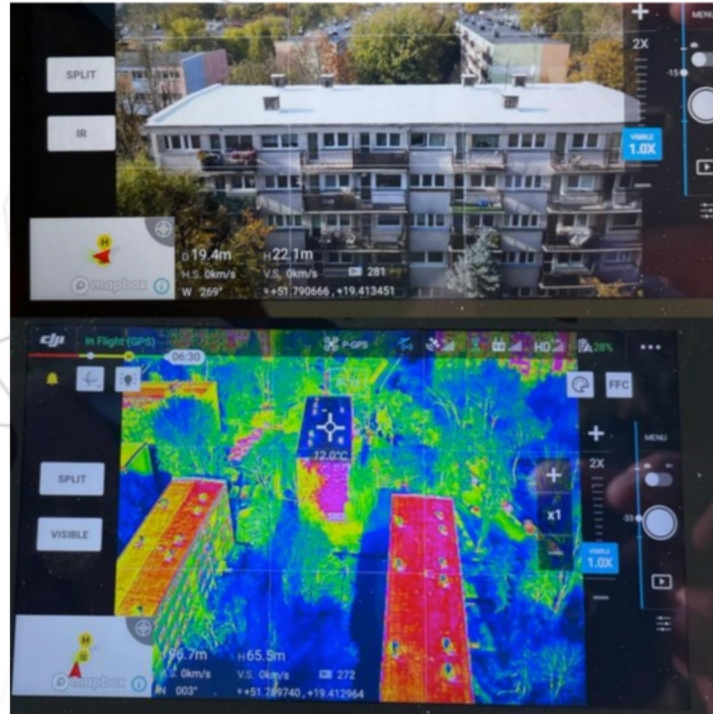
Orzysz

Residential tenement house,
Thermal insulation of the building façade.

The Bauter OUTSIDE System was used.

Our projects

BAUTER[®]



Thermo-graphic audits performed with a professional thermal imaging drone, confirming the effectiveness of our technology.



ABC Bauter

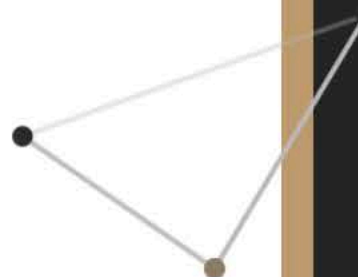
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The best moment for **BAUTER**[®] ? NOW!



New standards and legal requirements

Obligations to carry out thermal modernization of houses and buildings and to replace the heat source with low-emission ones.



Increases in prices and the cost of living

Increases in the prices of electricity and raw materials used to heat the house.
New taxes on CO₂ emissions.



Energy self-sufficiency

Free and own electricity, cheaper and more accessible thermal energy, increasing the efficiency of residential buildings.



ECO conscious

Protecting the planet today = savings!
Being eco-conscious, you do not overpay and you care for the natural environment.

With Bauter you save twice!
You save the planet and your wallet.



BAUTER[®]

effective thin-layer thermal insulation

up to **-50%** on the costs of heating
and cooling the building