EUROPIR®

EUROPIR® ETICS rigid PIR foam boards without facing, with unique combination of insulation as well as high physical and mechanical parameters. Insulation of external walls finished with thin-layer plaster.

- Proven thermal insulation for your home
- Lower heating and air conditioning costs
- Increased usable surface area and longevity of insulation

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EUROPIR® - THERMAL INSULATION BOARDS **WITHOUT FACING**

- simple and effective reduction of energy loss
- reduction of Energy dependency
- safety and durability of insulation

EFFICIENT THERMAL INSULATION
thinner thermal insulation layer = larger usable area

REDUCED ENERGY COSTS
used for heating and air conditioning

CLEAN AIR AT HOME
A+ class in terms of air quality

EASY TO PROCESS AND ADJUST
accuracy and tightness of insulation; fast assembly

SAFE FOR PEOPLE AND ANIMALS
confirmed by tests in independent laboratories; constant quality control

DURABILITY AND RESISTANCE
to chemical and biological factors

LIGHT WEIGHT AND IMPACT RESISTANT
reduction of unnecessary load; solid workmanship

LOW WATER ABSORPTION
stability of insulation parameters for many years

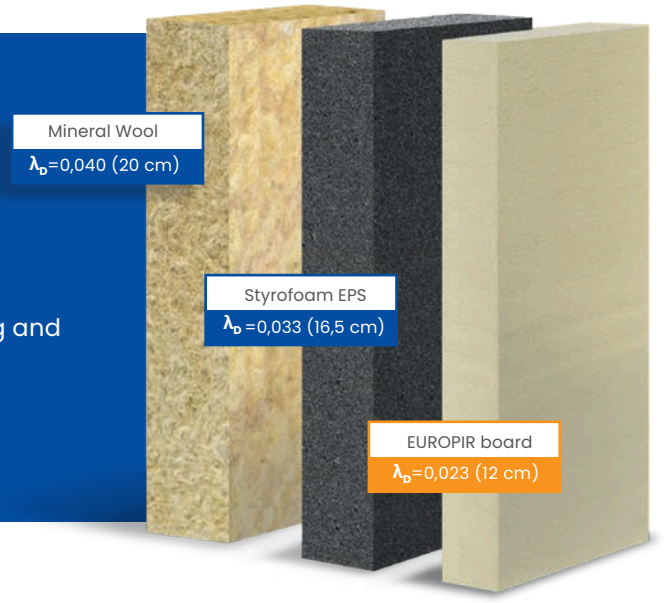
Introducing EUROPIR® ETICS – modern highly insulating product for thermal insulation of walls in ETICS technology.

EUROPIR® ETICS boards are elements of the latest generation of thermal insulation system for two layered external walls finished with thin-layer plaster.

EUROPIR® insulation has many advantages, however the basic and the most important of them is exceptional insulation. EUROPIR® ETICS boards without facing with thermal conductivity coefficient (λ_D) of 0,023-0,025 W/m*K are among the most efficient insulation materials.

Other advantages of EUROPIR® insulation:

- can be combined with other materials
- low water absorption
- impact and compression resistant
- easy to work with and process
- doesn't lose insulating parameters during processing and assembly
- durable materials
- doesn't emit hazardous compounds (A+ class)

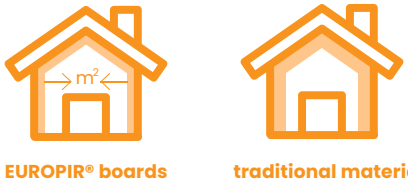


Some of them directly translate into savings and better condition of your home or investment budget, however you may not notice all of the benefits immediately.

First of all, the use of highly insulating PIR boards without facing allows you to **effectively reduce energy** used for heating and air conditioning. Well insulated walls not only save energy but also increase the comfort of both living and working in such a building.

BETTER INSULATION= SPACE SAVING

Better thermal properties of the insulation allow less material to be used while maintaining the required insulation parameters of the building or partition. This gives you the opportunity to obtain a larger usable area.



COSTS OF THE REMAINING CONSTRUCTION MATERIALS

Reduced thickness of the insulating materials= reduced thickness of the wall. This directly translates into savings related to the use of other construction materials used in external partitions (shorter mechanical connectors, smaller window sills, jambs slats etc.)

SIZE OF THE BUILDING EXTERIOR ELEMENTS

It is not obvious that when insulating the building from the outside the thickness of the insulation affects the size of all external elements of the building (balconies, terraces, stairs, etc.). Using a thinner layer of insulating material reduces this impact.

WINDOWS OF INSULATED HOUSE AND THE DAYLIGHT SUPPLY

Windows, especially in the old buildings are hidden in the structure of the external partition. The use of thicker material contributes to the fact that they resemble the old embrasure windows. They also cause limited daylight supply to the rooms.The use of EUROPIR® ETICS boards minimizes this effect and increases the transmission of sunlight through the window without the need to increase their dimensions.

According to research we spend more and more time indoors(up to 90%),especially during autumn-winter period.This means that appropriate daylight supply of our homes and workplaces is becoming more important for our health.

By ensuring better daylight supply we provide ourselves and our loved ones with conditions necessary for the healthy functioning of our bodies and effective way to study and work. It is worth paying attention to this aspect especially when performing insulation work on schools, kindergartens, universities, or hospitals.

As many as 81% of respondents agree with the statement that more daylight makes them think positively more often and they are in a better mood.

79% of respondents declared that more daylight increases psychological comfort.

CLEAN AIR AS NECESSARY HEALTH FACTOR

PIR boards also ensure healthy microclimate in insulated rooms and resistance to mould and microorganisms. In addition EUROPIR® ETICS insulation boards have been certified by Eurofin institute and obtained the highest (A+) rating in terms of impact on air quality.

MOISTURE- THE NIGHTMARE OF GOOD INSULATION

The biggest enemy of all insulating materials is moisture which effectively and permanently reduces insulation properties. More importantly susceptibility of insulation material to moisture caused damage (e.g. rotting, mould formation) and permanent loss of insulating parameters. Nothing good about it!

EUROPIR® ETICS boards are characterised by low absorbability which means they create excellent, durable as well as mould and microorganisms resistant insulation of the building façade.

This feature of PIR foam boards has made it most popular insulating material in particular rainy regions of Norway, Sweden and Finland. Moreover polyurethanes are less suspectable to colonization by insects or rodents. By using ETICS insulation we protect the building against both- heat loss and unwanted tenants such as insets, mice, rats, or martens.

EASE OF PROCESSING AND TIGHTNESS OF INSULATION

For experienced contractor it is of course an advantage that EUROPIR® insulation is easy to process due to its handy format and very light weight. EUROPIR® ETICS boards can be cut and sanded directly on the construction site adjusting the insulation to the individual structural elements of the building. This doesn't require any special equipment. Moreover the insulation doesn't lose its properties during such a treatment. For the homeowner this feature of EUROPIR® boards means durability and tightness of insulation layer.

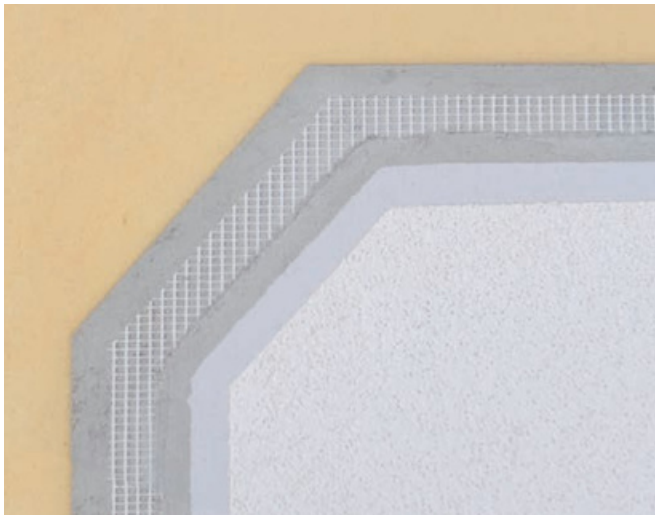
Relative lightness and reduced thickness of EUROPIR® ETICS boards allow to avoid unnecessary load on walls and foundations. This aspect is particularly important when planning thermal modernization of existing buildings.

USE:

EUROPIR® ETICS – highly insulating PIR board without facing intended for insulation of two-layered wall finished with thin-layer plaster (ETICS).

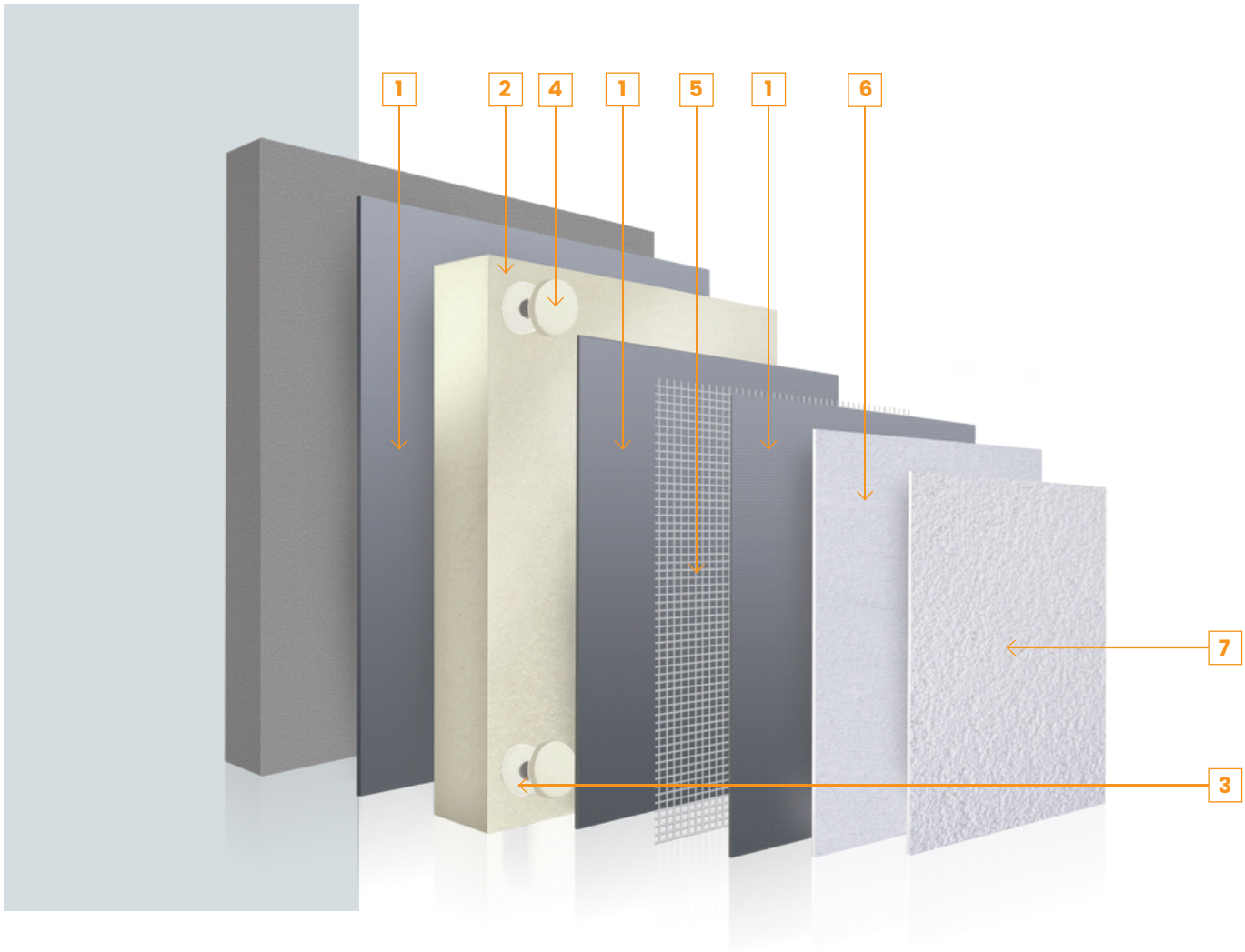
Very low thermal conductivity coefficient - at a level λ_D = 0,023-0,025 W/(m·K) makes it an excellent solution, both for newly constructed buildings and those undergoing thermal modernization.

EUROPIR® ETICS board is recommended for use in thermal insulation and thermal modernization of residential buildings, public utility buildings, offices and service premises.



THE MOST IMPORTANT BENEFITS OF USING BOARDS BASED ON EUROPIR® ETICS SYSTEM

- Effective reduction of energy costs used for heating and air conditioning.
- Comfort related to easier maintenance of appropriate temperature during hot weather as well as autumn-winter period.
- EUROPIR® ETICS boards have increased resistance to mould and microorganisms, which contributes to healthy microclimate. In addition EUROPIR® ETICS boards obtained A+ class rating in terms of impact on air quality.
- Better supply of natural light necessary for healthy functioning of our bodies and effective way to study and work, which is particularly important during autumn-winter season.
- No excessive load on walls and foundations and associated costs.
- Reliability and durability of insulation parameters.
- Quick installation due to the use of an easier-to-process insulating material such as board without facing.
- Approx. 30-40% reduced thickness of the thermal insulation layer necessary to achieve the same insulation effect.



FAÇADE LAYERS

1. Adhesive and putty mortar
Mortar for bonding the insulation board to the substrate and embedding the fibreglass mesh.

2. EUROPIR® ETICS
Thermal insulating PIR board without facing, with thermal conductivity coefficient- 0,023-0,025 W/m·K.

3. Mechanical Connector
Mechanical connector in accordance with the approval.

4. EUROPIR® CAPS/ EUROPIR® TUBE
PIR foam end caps/tubes for insulation of mechanical connectors.

5. Fibreglass mesh
Mesh with density- 145 g/m2, mesh size- 4,0 x 4,5 mm (+/- 0,5 mm), or with density- 160 g/m2, mesh size- 3,5 x 3,8 mm (+/-0,5 mm).

6. Primer
Primer for preparing the substrate.

7. Thin layer plaster
Plaster mass intended for manual application of thin-layer plaster coatings on the exterior of the buildings and finishing layers in ETICS thermal insulation system, resistant to dirt, mould and fungi.

THERMAL INSULATING EUROPIR® ETICS BOARD is the basis of modern thermal insulation systems of exterior walls. Made of foamed rigid PIR foam, board with 20 to 200mm thickness and covering area of 1000x 600 mm. EUROPIR® ETICS insulation belongs to the group of the most efficient insulating materials with thermal conductivity coefficient at a level- λ_D = 0,023 - 0,025 W/(m·K).

USE

EUROPIR® ETICS – rigid PIR board without facing with high insulation parameters, used in thermal insulation systems of two-layered walls with thin-layer plaster or façade paint finish.
Recommended for thermal insulation and thermal modernization of walls of houses, residential and office buildings as well as commercial and service facilities.

EUROPIR® ETICS BOARDS- TECHNICAL PARAMETERES:

Boards characteristics:

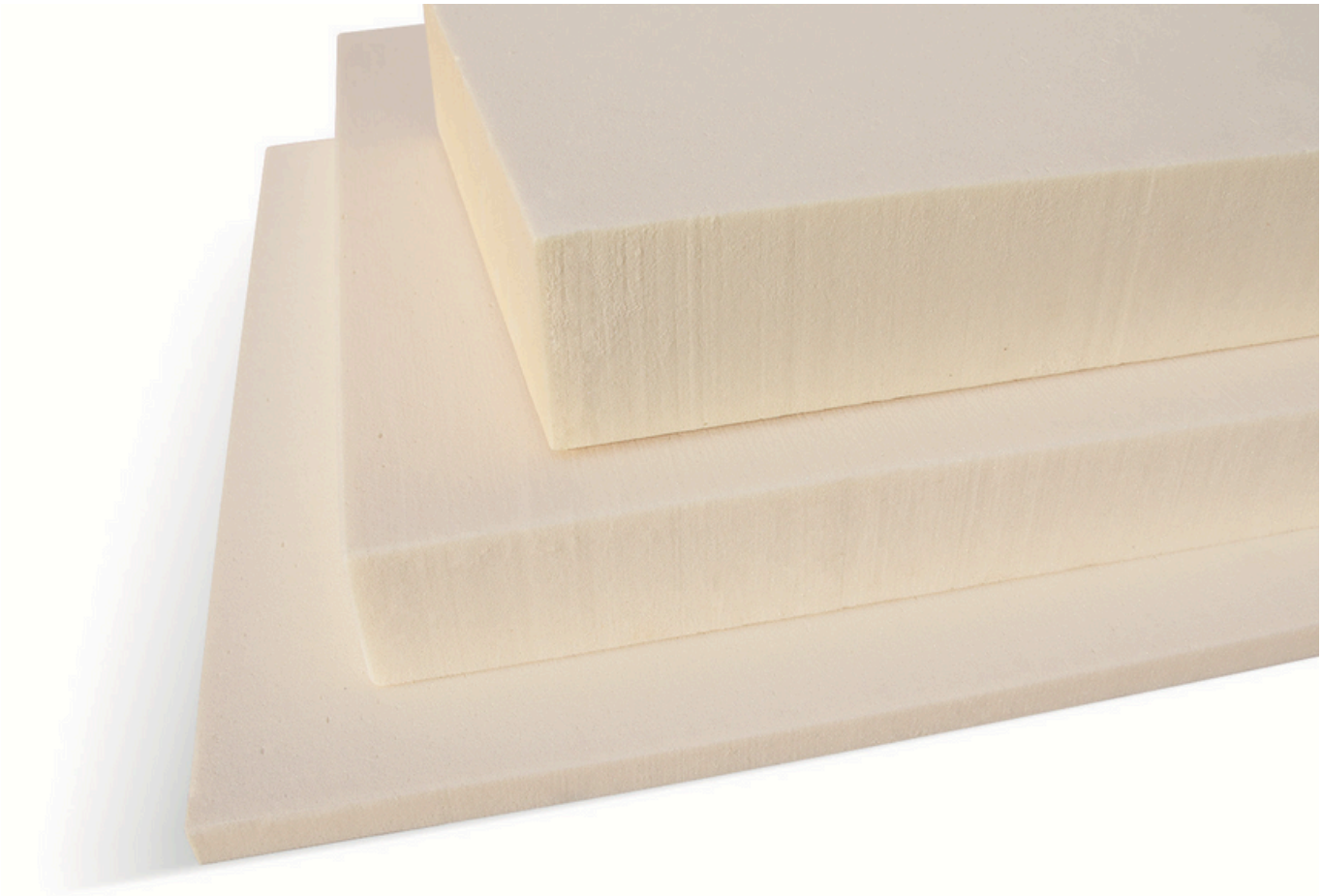
Parameter	Unit	Value	Additional information
Length	mm	1000	Standard sizes. Other sizes available upon individual request.
Width	mm	600	
Thickness	mm	20-200	
Colour	-	light yellow	

Material Specification

Parameter	Unit	Value	Research Standards
Reaction to fire	Euroclass	E	PN EN 13165
Compressive strength	kPa	≥150	PN EN 13165
Tensile strength	kPa	≥120	PN EN 13165
Short-term water absorption by partial immersion	kg/m^2	<0,15	PN EN 13165
Long-term water absorption by partial immersion	kg/m^2	<0,32	PN EN 13165
Long-term water absorption by total immersion	% (vol/vol)	<1,7	PN EN 13165
Closed cell content	%	>90	PN EN 13165
Dimensional stability (length, width,/thickness) 70° C/90% r.h.	%	≤2 / ≤6	PN EN 13165
Dimensional stability (length, width,/thickness) -20° C	%	≤0,5 / ≤2	PN EN 13165
Thermal conductivity Declared thermal conductivity coefficient d<80 mm Declared thermal conductivity coefficient ≤d<120 mm Declared thermal conductivity coefficient ≥120 mm	W/mK	$\lambda_D \leq 0,025$ $\lambda_D \leq 0,024$ $\lambda_D \leq 0,023$	PN EN 13165
Working temperature range	°C	-120 do +120	-

EUROPIR® ETICS BOARDS FEATURES:

- Thermal conductivity coefficient λD = 0,023 - 0,025 W/(m·K)-for boards without facing. One of the most efficient materials on the market. A perfect combination of quality vs. price.
- Handy format and light weight of the insulation boards (120 mm board weighs approx. 2,8 kg).
- Low water absorption (<1,7%), which prevents the occurrence of issues related to presence of water in the insulation material (e.g. loss of insulation parameters, growth of microorganisms, the need to replace damp insulation, etc.).
- Closed cell content- above 90%.
- A component of modern thermal insulation systems (ETICS).
- A+ class rating in terms of impact on air quality.
- No facing on the insulation boards which makes it easier to adjust the insulation layer.
- Increased resistance to mould and fungi.
- High dimensional and shape stability of insulation boards.
- Non-sustaining fire and non-dripping insulation material.
- Product certified by Institute of Public Health.



Packaging and thermal resistance EUROPIR® ETICS boards

As a standard boards are packed in packages with dimensions of 1000 x 600 mm and hight of approx. 500 mm.

Board thickness	**mm**	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Thermal resistance (R)	**m^2K/W**	0,80	1,20	1,60	2,00	2,40	2,80	3,33	3,75	4,17	4,58	5,22	5,65	6,09	6,52	6,96	7,39	7,83	8,26	8,70
Package weight	**kg**	8 kg - 12 kg (depending on the board thickness)																		
Pcs. Per pack	**pcs**	25	16	12	10	8	7	6	5	5	4	4	4	3	3	3	3	3	2	2
m2 per pack	**m^2**	15	9,6	7,2	6	4,8	4,2	3,6	3	3	2,4	2,4	2,4	1,8	1,8	1,8	1,8	1,8	1,2	1,2
Packs per pallet 1200x1000	**pcs**										8							6	10	

EUROPIR® Caps- designed for thermal insulation of mechanical fastener plates.

EUROPIR® CAPS

- end caps made of rigid highly insulating PIR foam in the shape of discs, with diameter of 65,67,70mm and thickness of 15 mm. Designed for thermal insulation of mechanical fastener plate during the assembly of boards and façade based on PIR boards insulation system.

EUROPIR® TUBE

– modern tubes made of rigid highly insulating PIR foam in the shape of tubes and 100 mm length, designed for thermal insulation of mechanical fastener plate during the assembly of boards and façade insulation system.

EUROPIR® CAPS &EUROPIR® TUBE are designed to increase tightness of the thermal insulation and reduce the risk of thermal bridges. End caps and tubes are made of PIR foam blocks with thermal conductivity coefficient - 0,023- 0,025 W/(m*K). EUROPIR® CAPS are handy, ergonomic and easy to use. Special, slightly elliptical shape allows better insertion into the opening.

EUROPIR® CAPS & EUROPIR® TUBE - recommended for:

- insulation of mechanical fastener plated during wall insulation,
- external wall,
- external wall with ETICS technology façade.

Product	Unit of measure	Pcs per pack
		pcs
EUROPIR® CAPS - 15 mm / fi 65/67/70 mm*	pcs	200,00

Product	Unit of measure	Pcs per pack
		pcs
EUROPIR® TUBE - 1000 mm / fi 65/67/70 mm*	pcs	10,00

* Minimum order- 1 pack.
* Other sizes available upon individual request.

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A building can lose up to 10% of its heat through thermal bridges. In order to ensure uniform and tight insulation layer, professional installation companies always insulate mechanical connectors with which the thermal insulation boards are fixed to the wall.

A proper insulation of mechanical fastener plates with special plugs not only reduce the risk of thermal bridges. This simple procedure significantly reduces the risk of characteristic discoloration on the façade, commonly known as „the ladybug effect”. These are spots that appear over time as a result of condensation of water vapour in the places where the installed fasteners are not properly protected. The spots are also an excellent substrate for the reproduction of fungi on the façade.

Technical parameters

EUROPIR® TUBE & EUROPIR® CAPS ARE MADE OF RIGID PIR FOAM BLOCKS WITH THE FOLLOWING PARAMETERS:

Product specifics			
Parameter	**Unit**	**Value**	**Research standard**
Reaction to fire	Euroclass	E	PN EN 13165
Compressive strength	kPa	≥150	PN EN 13165
Tensile strength	kPa	≥120	PN EN 13165
Short-term water absorption by partial immersion	kg/m^2	<0,15	PN EN 13165
Long-term water absorption by partial immersion	kg/m^2	<0,32	PN EN 13165
Long-term water absorption by total immersion	% (vol/vol)	<1,7	PN EN 13165
Closed cell content	%	>90	PN EN 13165
Dimensional stability (length, width/thickness) 70°C/90% r.h.	%	≤2 / ≤6	PN EN 13165
Dimensional stability (length, width/thickness) -20°C	%	≤0,5 / ≤2	PN EN 13165
Thermal conductivity Declared thermal conductivity coefficient d<80 mm Declared thermal conductivity coefficient 80≤d<120 mm Deklarowany wsp. przewodzenia ciepła ≥120 mm	W/mK	λ_D≤0,025 λ_D≤0,024 λ_D≤0,023	PN EN 13165
Working temperature range	°C	-120 do +120	-

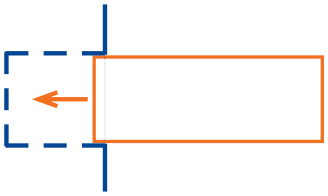
Façade with properly secured mechanical fastener plates.

Façade without caps installed to insulate the mechanical fastener plates.

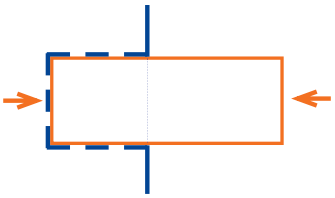
EUROPIR® TUBE Assembly

EUROPIR® TUBE assembly involves:

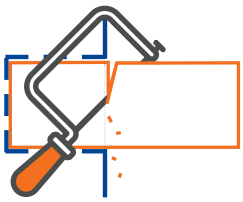
1. Cut an opening with depth of about 15-20 mm (depending on the shape of mechanical fastener plate) in the insulation board using hole saw attached to the power drill.



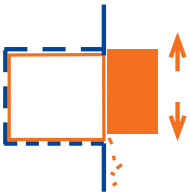
2. Then install the mechanical fastener plate according to producer's or manufacturer's instructions. After fastening insert the tube into the opening created in the place where the fastener is mounted, push it in until there is a clear resistance.



3. Cut off the remaining protruding part of the tube using knife or a saw- evenly with the façade.



4. If necessary simply sand the protruding part of the tube with the remaining part of the tube or polyurethane cube.



At every stage of the work, it is necessary to protect the boards, caps and tubes from prolonged exposure to UV rays. Sunlight doesn't have an impact on the parameters of the PIR foam product, but causes slight discoloration of the product. During the installation it is necessary to use appropriate protective equipment and follow health and safety regulations.

Ready-made wall insulation system based on EUROPIR® ETICS boards

Below we present a system based on EUROPIR® ETICS thermal insulation boards, plasters & primers available on the market. It is a system based on PIR boards used to insulate two-layered walls in ETICS system.

SYSTEM ELEMENTS

- EUROPIR® ETICS thermal insulation board with thickness of 20 to 200 mm and dimensions of 1000 x 600 mm
- Mineral adhesive filler mortar
- Mechanical fasteners according to the approval

The type of mechanical fasteners and their length should be adapted to the type of substrate, thickness of the thermal insulation layer, hight of the building and the static load involved. This information should be included in the project documentation.

- EUROPIR® CAPS &EUROPIR® TUBES
- Primer
- Ready-made plaster mass
- Fibreglass reinforcing mesh VERTEX R 117 A 101

Application guidelines

1. ASSEMBLING THE STARTER STRIP

Before the actual assembly, the level of the plinth must be determined - this information can be found in the design documentation . Before the installation of EUROPIR® ETICS insulation boards - starter strip, or starter kit needs to be installed in accordance with EN 13 501-1 requirements.

2. DEDUSTING OF INSULATION BOARD

EUROPIR® ETICS boards must be dedusted before applying the adhesive. Safety googles and dust mask should be used during dust removal.

3. BOARDS CUTTING

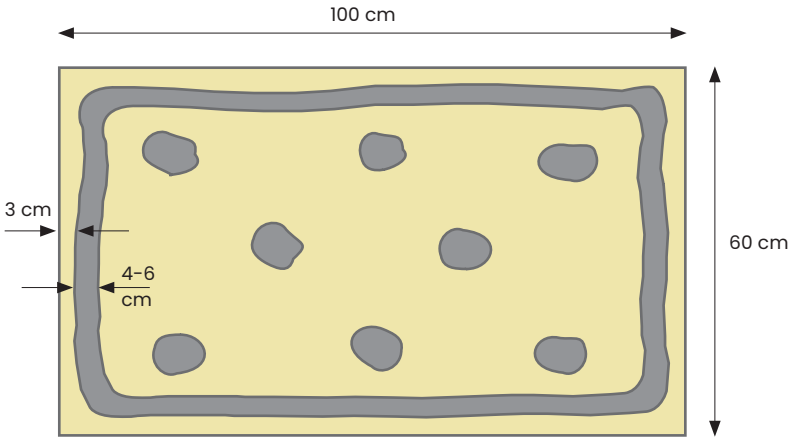
If necessary cut the boards to fit the elements of the structure to be insulated. Cut the boards with a upholstery knife or saw (depending on the thickness).

4. BONDING OF INSULATION BOARDS

Prepare and clean the substrate (see GENERAL GUIDELINES).
EUROPIR® ETICS should be glued to the wall with adhesive mortar provided for this purpose in accordance with ETA/NTA* documentation prepared according to manufacturer's recommendation (instructions, manuals technical sheets).

*NTA - National Technical Assessment (referred to in Polish as KOT - Krajowa Ocena Techniczna)

Apply the adhesive mortar using the following method:

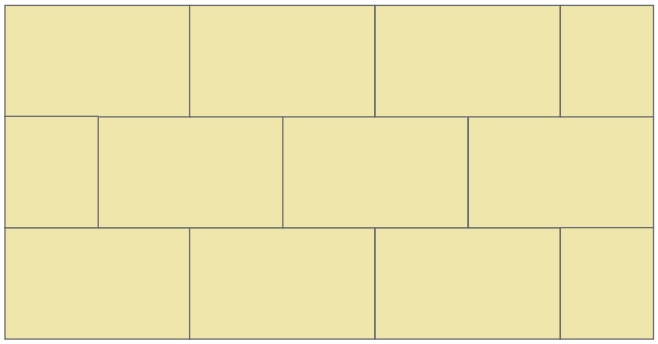


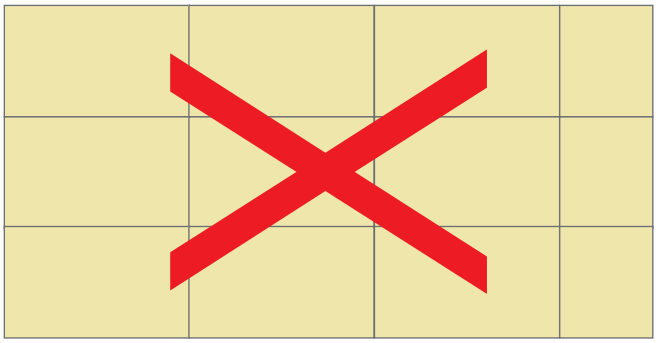
- adhesive should be applied on the board using edge-spot pattern. Apply 4-6 cm wide strips on the edges and gaps in the adhesive band for venting. On the remaining surface of the board apply several dots of the adhesive (from 3 to 8) with diameter of approx. 8 cm. The total area of the adhesive should cover at least 40% of the board surface.

- by using toothed smoother- it is to be used on even, plastered surfaces. The adhesive is applied with notched trowel with 12mm square teeth.

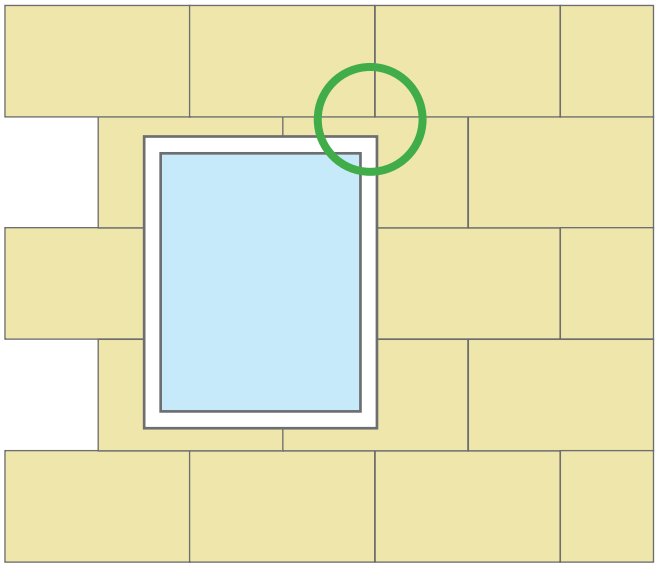
The spaces between the boards with width of more than 3 mm should be filled with low expansion polyurethane foam. After applying the adhesive mortar immediately place the EUROPIR® ETICS board against the wall and press.

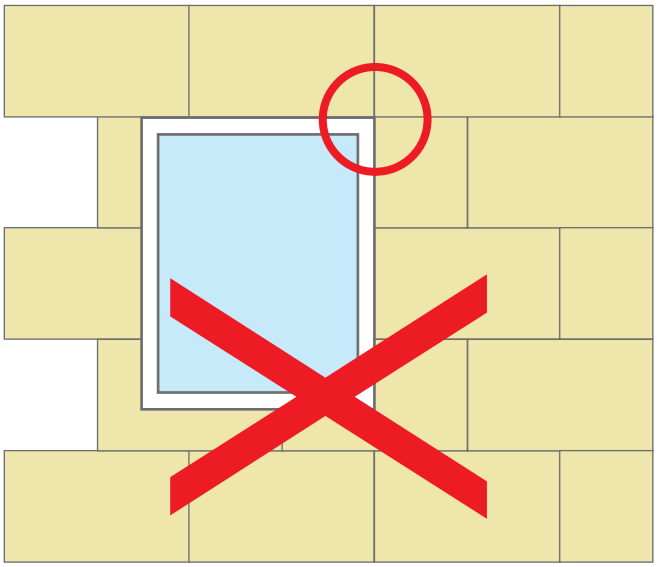
The insulation boards should be laid very carefully and tightly in the so called "interlocking" manner with a shift of half of the length of the board from the bottom to the top starting from the corner of the wall.





After dedusting the boards and applying the adhesive to it, boards should be glued evenly by pressing it with e.g. large surface trowel. Check the evenness of the surface on ongoing basis with spirit level.





It is not permissible to tear off and press the boards again. The detached boards should be thoroughly cleaned of the adhesive and only then we can proceed with the re-gluing. Chipped, broken, or by any other means mechanically damaged boards shouldn't be used.

Boards protruding in the corners can only be cut after the adhesive has fully set. Any irregularities and faults on the surface of the boards should be sanded with the use of polyurethane board cube to obtain uniformed surface- the board should be dedusted.

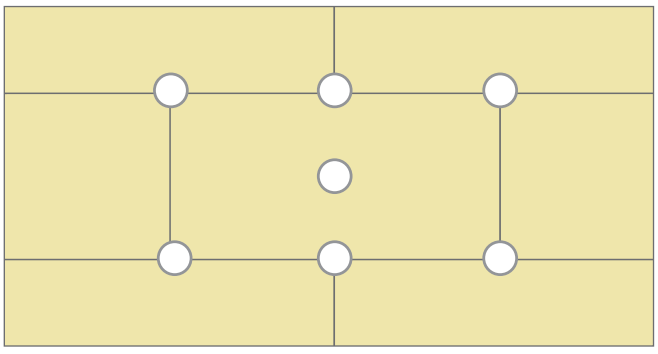
Boards should be glued at ambience temperature of +5°C to +25°C,in rainless weather. In case of very strong wind and strong sunlight protective nets and shields against direct exposure to sunlight should be used.

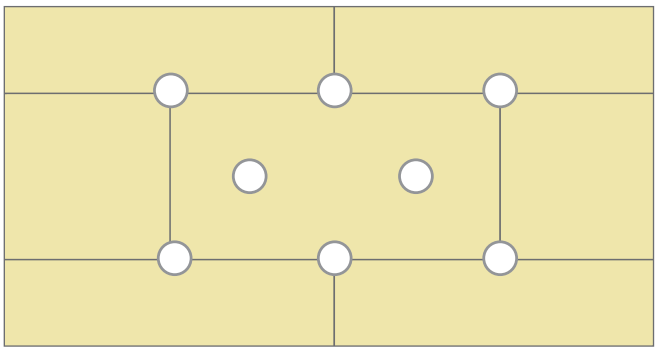
5. MOUNTING WITH CONNECTORS

Select connectors in accordance with project documentation. Type and number of connectors depends on type of substrate, thickness of EUROPIR® ETICS thermal insulation layer, hight and location of the building and the occurring dynamic loads of wind pressure suction.

Mechanical fastening with connectors is carried out in accordance with guidelines contained in the project or construction documentation. It is recommended to use 4 fasteners per 1 m2 in the central part of the wall and due to the higher suction forces of the wind approx. 6-8 fasteners per 1 m2 in the corners and around window and door opening. However you should always follow the guidelines in construction documentation. Mechanical connectors must pierce the insulation board at the point where the boards is in contact with construction wall by means of the adhesive mortar.

It is not permissible to omit the bonding of boards and use mechanical connectors only.





6. SECURING THE MECHANICAL CONNECTOR PLATES

EUROPIR® ETICS boards can be fastened with connectors with plastic or steel mandrel in accordance with ETA/NTA* regulations and the manufacturers instruction.
The length of the connectors should be selected so that they do not protrude above the surface of the insulation board. In case of installation of connectors with recess in the thermal insulation layer EUROPIR® CAPS or EUROPIR® TUBE should be used.

7. APPLYING A LAYER WITH FIBREGLASS MESH

Apply an adhesive and filler mortar to dedusted and primed board with trowel to ensure full adhesion of the mesh.

8. EMBEDDING FIBREGLASS MESH

The reinforcing layer is applied to dry and cleaned thermal insulation boards in the period of 2-4 days after the completion of gluing the boards, after anchoring with connectors, completed sanding, but no later than 14 days from the completion of the bonding of the insulation boards.

9. FINISING LAYER

Type, structure and shade of the finishing layer consisting of primer and plaster are specified in construction documentation.
Thin-layered plasters are provided in buckets and already intended for direct application. The method of preparation and application of priming products and plasters is specified in technical data sheets of these products (ETICS documentation). No additives can be added to these products. The type of plaster used must correspond to the type of primer used.

10. COMPLETION OF WORK

The coating should be protected from rain, frost, strong winds and direct sunlight for at least 72 hours during the maturing period. Otherwise discoloration may occur on the façade due to different crystallisation rates of the silicate binder.

*NTA - National Technical Assessment (referred to in Polish as KOT - Krajowa Ocena Techniczna)

General guidelines

WORKING CONDITIONS

• Refer to the instructions of each component of the system. Prepare the necessary tools and personal protective equipment.

• Most mortars and plasters are designed to be used at temperature between +5°C to +25°C (applies to both- material and substrate temperature).

• Remember that work shouldn't be carried out in excessively windy, or rainy weather. The façade should be protected against the influence of weather conditions. Both, mortars and finishing coats should not be applied on surfaces exposed to direct sunlight. Applied mortars should be protected from rain, frost, strong wind and direct sunlight exposure. The protection and drying time of mortars are given in the technical data sheets of these product.

• Insulation boards should be protected from exposure to sunlight at all times during the insulation work. Boards that have changed their colour significantly under the influence of the UV light exposure should be sanded before installation in the system.

• Store liquid materials in their original sealed containers, protect from frost and mechanical damage. Dry mortars (powdered materials) should be stored in undamaged, original packaging in dry place to prevent moisture from the air from penetrating into the material and protect it against mechanical damage.

• Defective, or damaged material in any way should not be incorporated into the façade.

SUBSTRATE PREPARATION

Before insulating the façade using ETICS method:

• Complete all the façade work before starting the insulation assembly. Protect hole fillings. Ensure that greenery and structures of the building are protected.

• Label all installation (such as gas, electrical, water, etc.) to avoid damage when attaching the insulation with mechanical fasteners.

• Dismantle the electrical components on the façade and prepare new distribution boxes and new wiring.

• Seal all gaps and cracks (doesn't apply to expansion joints). Expansion joints in the substrate should be repaired if necessary.

SUBSTRATE INSPECTION

• The substrate to which the insulation boards are glued should be degreased, even, dry, free from stains and efflorescence of biological or chemical origin.

• In case of lichens, mould and/or fungi are present the substrate should be cleaned mechanically, then washed off with water and disinfected with suitable product.

• The substrate should not be covered with anti-adhesive agents. If necessary adjust the adhesion, or absorbency of the substrate with appropriate preparation/primer. Always apply the primer directly onto the substrate. In case of applying the primer onto newly constructed mineral substrate (such as concrete, cement plaster and cement-lime plaster)- minimum of 2 weeks seasoning period is required.

• If unevenness of the substrate is significant the wall should be pre-levelled with levelling mortar, then the entire surface levelled and smoothed with filler mortar. In case of small unevenness a filler mortar can be applied immediately. The use of the above mentioned mortars should be in accordance with technical data sheets of these product.

- The anchoring elements must comply with those specified in ETA declaration for the relevant thermal insulation system.
- Any other auxiliary materials necessary for proper execution of the façade should be used in accordance with recommendations of the manufactures of those materials.
- All construction works should be carried out by qualified personnel in accordance with the Construction Law, health and safety regulations, and fire safety rules.
- All materials and accessories should be stored in dry place in their original packaging and protected from damage and UV light.

IMPORTANT! Insulation boards should be dedusted before gluing.

Need more details? Contact us.

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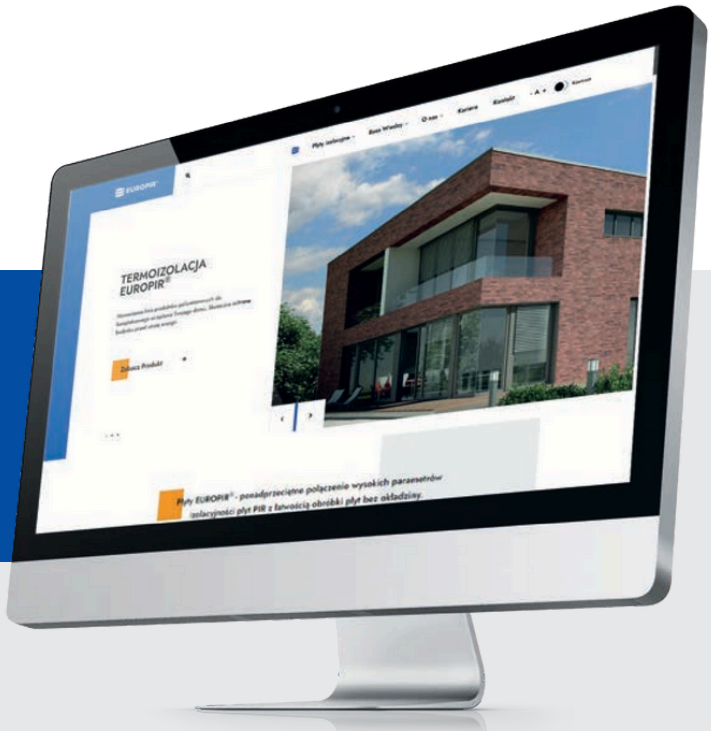

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