

ClimaPLUS

External Thermal Insulation System **THRAKON**

Implementation guide

- ✓ Upgrade your living level
- ✓ Save up to **60%** in money





ClimaPLUS is a complete external thermal insulation system for buildings which consists of:

- The thermal insulation plates, expanded polystyrene, extruded polystyrene or mineral wool
- The adhesive for thermal insulation plates on surface of building
- The coating material of thermal insulation plates
- The reinforcement mesh of coating
- The colored primer
- The final colored and decorative plaster
- Helpful materials (plastic anchors, corner profiles, starters etc.)

With the external thermal insulation system ClimaPLUS, you can plaster and insulate exterior your house, fast and easy. ClimaPLUS create to building a cover protection which reduce the heating from and to interior. So, at winter the heat is reduced which lost from the building and at summer the heat is reduced which flow to building.

Reducing the thermal losses from the building, at the same time reduces the energy which must be consumed for supply the various cooling-heating systems up 60% on average over year. Moreover, the initial construction cost limited of the installation of central heating or air conditioning system. The depreciation time of the system is relatively low, ranging from 4-8 years.

Application fields

ClimaPLUS is a thermal insulation system of buildings. It can apply in new or existing buildings. The result is an excellent insulation and very good quality interior air.

1 Thermal Insulation of Interior or Exterior Masonry

When the Regulation of Energy Performance of Buildings is applied in buildings, must reinforce the thermal insulation in more of them. ClimaPLUS has easy application in exterior or interior masonry. ClimaPLUS is applied in three different systems, depending on the insulation material: expanded polystyrene, extruded polystyrene and mineral wool.

2 Thermal Insulation for ceilings in pilotis, basements and penthouse:

ClimaPLUS is suitable for application in ceilings, basement rooms, parking. The heating

Guarantees

THRAKON is always leader. As in other products, for production of system, uses the silica sand, which gives in product excellent features such as workability, waterproofing, durability and finish. THRAKON applied in production, a legal system of quality control and ensures the customer for the products that has. The ClimaPLUS system of THRAKON is according to European Standards ETAG 004.

Certification

The material of system are certifying and ensuring the user for the:

- suitability of system for provided use
- protection of system during the use
- strength of system during the life time of construction
- fire protection
- health and protection from the use of system
- protection of noise and compatibility of materials of system between them.

Advantages of ClimaPLUS system

✓ Energy Saving

With the external thermal insulation system of buildings ClimaPLUS of THRAKON, you are covering the building that protect it of weather conditions and decrease the costs of heating at winter and cooling at summer.

✓ Ideal Solution for the Rebuilding and Thermal Insulation of existing buildings

The external thermal insulation of THRAKON can be applied easy, without interrupting the operation of building and without altering the architectural identity. So, it is the optimal solution for renovation of existing buildings, creates excellent result with a choice between many different colors and styles.

✓ Environment Protection

With the external thermal insulation of THRAKON is using lower energy for heating and cooling of building. This means that the CO₂ pollutants that emitted into the atmosphere are reduced.

✓ Certificate of Energy Authentication

Under the Directive for energy performance of buildings (2002/91/EC) adopted by European Parliament will there must be energy performance certificate for each building, depending on the total energy consumption which will necessarily accompany the contract or shop. By using the ClimaPLUS the building reach the threshold set by the European Union with the result to building better energy ranks headings.

✓ Protection of Bearing Structure and Facade Waterproofing of Buildings

ClimaPLUS protects the bearing structure from vapors. In addition, creates a cover protection in building. So, it gives in building protection of rain because the system keep the moisture out of building and protect the areas of mould and fungi.

✓ Avoiding Cracks in Plaster

The finish coatings (final coat) give excellent resistant final surface. In addition, coatings are water repellent, have elasticity and don't cracking. The only maintenance is needed is the paint of building whenever we want to change the shade or for maintenance every 15-20 years.

✓ Economy

ClimaPLUS offers the best relationship between costs and performance, compared to other external thermal insulation systems of buildings, in line with life time of construction and also, the depreciation of investment to an existing building limited to a short time.

- Fuel and energy savings until to 60%
- Thermal insulation at winter and summer
- Improve sound insulation
- Variety of colors and surfaces
- Add surplus value for your estate

Surplus value for your estate

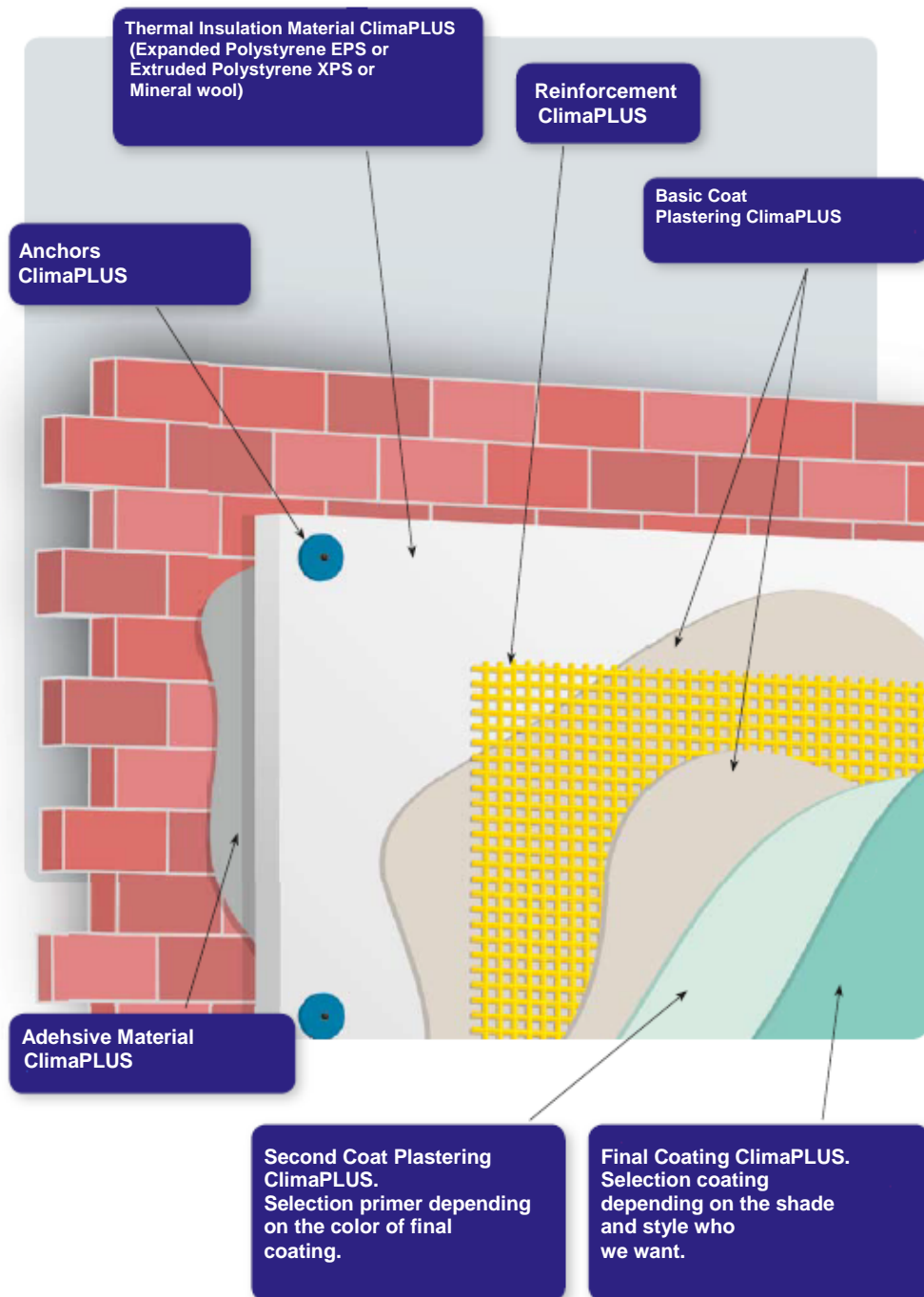
Your estate gains in value and demand when you want to sell or rent. The added value of building acquires energy authentication.

School of Education for Engineering and Technicians

THRAKON organizes seminars for technicians for the detailed presentation of External Thermal Insulation of Buildings ClimaPLUS, in theoretical and practical level, in order to inform you about the system of our company.

Call the Technical Department in order to express the interest of participation to **800 100 1414**
or send e-mail to: support@thrakon.gr





ClimapLUS

Preview of system

| System structure | THRAKON materials |
|--|--|
| 1 Substrate | |
| Concrete, brick, autoclaved aerated concrete, cement block, aggregate stone, stone etc. | |
| 2 Thermal Insulation Material | |
| Thermal insulation plates Expanded polystyrene (EPS), Extruded polystyrene (XPS) or mineral wool | Expanded polystyrene ClimapLUS EPS – F 80 Expanded polystyrene ClimapLUS EPS – F 100 NEOPOR EPS 80 Extruded polystyrene ClimapLUS Mineral wool ClimapLUS |
| 3 Adhesive Material | |
| Variety of mortars under technical work and the type of thermal insulation plate. | THC 403 – Cement based adhesive THC 405 – Cement based adhesive - plaster THC 409 – Cement based adhesive - plaster THC 410 – Reinforcement adhesive – cement based plaster – suitable for adhesion of mineral wool |
| 4 Anchors | |
| Variety of anchors under the substrate and the thickness of thermal insulation plate. | Anchor ClimapLUS for brick Anchor ClimapLUS for concrete Plastic milling ClimapLUS |
| 5 Basic coat plastering | |
| Variety of mortars under technical work and the type of thermal insulation plate. | THC 405 – Cement based adhesive - plaster THC 409 – Cement based adhesive - plaster THC 410 – Reinforcement adhesive – cement based plaster – suitable for adhesion of mineral wool |
| 6 Reinforcement | |
| Reinforced fiberglass mesh followed by a series of special pieces to local increased resistance to impact. | Mesh ClimapLUS (160 gr/m ²) Plastic corner ClimapLUS Aluminum starter ClimapLUS Mult dip profile ClimapLUS Mult dip profile ClimapLUS with fiberglass mesh |
| 7 Second coat plastering | |
| Very thick layer compatible with existing alkalinity of basic coat. | GLX 494 Prim – Colored acrylic primer for organic renders GLX 496 Acryl – White acrylic primer for cement based renders |
| 8 Final coating | |
| Final coatings of high resistance to weather conditions and mechanical strengths. | DEC 424 – White inorganic render – SCRATCH type DEC 425 – White inorganic render – RILLEN type DEC 428 Polyplast – Colored acrylic primer – SCRATCH or RILLEN type DEC 429 Silicate – Silicate colored render – SCRATCH or RILLEN type DEC 431 – Acrylic colored render with silicone additives DEC 433 Mosaic – Mosaic render with colored grains DEC 437 Si&Si – Silicate colored render with silicone additives – SCRATCH or RILLEN type DEC 438 Silicone – Silicone colored render – SCRATCH or RILLEN type |

Step 1 Substrate preparation

- The substrate must be:
- cleaned from dust (cleaning)
 - cleaned from oils – fats (cleaning with water under pressure/vapor)
 - stable & compact (the surface must be allowed the correct adhesion)

- level (cut & remove all the building materials that protrude)

Avoid penetration of water behind ClimaPLUS.

Ensure that there isn't water and moisture on substrate before and during the application. Must be removed the reasons that create moisture in masonry and must repair the broken areas.

Surfaces with moisture destroy the plaster and create mud.

The application of ClimaPLUS system must be done before the interior plasters dried.



When the application became in old walls and substrates, the substrate must be cleaned with water under pressure where the system applied.

It's prohibited the application of system during rain and strong air.

It's prohibited the application of system at temperatures under to +5°C and up to +35°C.

Avoid the application under the solar radiation. Can be created shadows from

the scaffolds.

It's prohibited the application of system above the large defects and big gaps. One coat plaster is applied for the surface smoothing. The bumps of plaster must be removed from the substrate.

A stable substrate is required for the application of system.

There must be no cracks in surface application.

Step 2 Starter profile



- Placed carefully the starter.
- Protect from damages the base
 - Increase the system strength
 - 40cm from ground



Aluminium starter placed in space of 3mm between them. Choose the right plug for the corresponding substrate



Spacers:
In case of defect of substrate



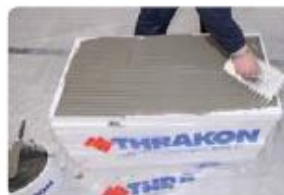
Configuration of exterior corner:
Make sure covering 25mm

Step 3 Thermal insulation plates

Adhesion



The method of application of adhesion material and the thickness of coat are depending on defects of substrate. For substrates which are not level, the application of adhesion material become with the method of spot installation, perimeter with tape of thickness 3 – 5mm and in center of plate with 2 or 3 spots. The adhesion material must cover 40% of all surface of plate.



When the substrate is level, then the adhesion material can be applied with trowel of 10mm in all surface of plate. On the side surfaces of thermal insulation plates don't apply material.



The placement of thermal insulation plates must be correct and level. For this reason the uniformity and leveling of surface must be checked at regular basis with particular attention to corners. Must be avoid displacements to joints. If there are defects of thermal insulation plates, must be smoothed with suitable float (No.12 paper glass)



In windows, placed leveling a thin piece of thermal insulation plate in order to have correct connection, level and without gaps.

Placement



The placement of thermal insulation plates in corners of masonry become with method where succeed junction of joints. Covered 4 – 5 mm and cut after 24 hours.



Must be avoided connections of ends to extension of the corners of the openings of the facade (etc. windows) in order to prevent any cracks in these points. Use the whole plate in these points.



The insulation plates must be placed in horizontal rows in grid layout in order to avoid the continuous vertical joints.



Avoid the application of adhesion material in joints of insulation plates. If there are gaps until 4 mm, must be filled with polyurethane foam. Gaps larger than 4mm filled with clean thin pieces of insulating plate.

Step 4 Anchors



| | | |
|------|--|-------------------|
| 20 m | | 6/m ² |
| 8 m | | 8/m ² |
| 20 m | | 10/m ² |

The selection of correct type and length plastic anchor must be selected according to substrate, the type and thickness of thermal insulation plate, the thickness of adhesive and the thickness of plaster. The spot can be applied after the adhesion drying (24 – 28 hours). The required number of plastic anchors per m² is not officially defined. It is recommended to applied plastic anchors always and every time that have buildings above to 8 meters high.

Application



For the placement of plastic anchors, opened holes only in points that there is adhesion material under the thermal insulation plate. This points can be found if hit the plate with a small hammer or with hand. The opening of holes become with drill No.8 and without hit because it can be broken.



The depth of hole must be 10 mm larger than the anchorage depth of plastic anchor. Follow careful cleaning of the hole and then placed the plastic anchors flush with the insulating plate using a hammer. To create a groove order the head of the plastic anchor to come face to the insulation plate before installing the plastic anchor before milling with a special plastic milling.

After the installation of plastic anchors proceed in the putty to ensure the surface remains flat.

Step 5 Basic coat plastering



Reinforce the corners of windows and doors and all the corners and openings using plastic corners THRAKON before the application of basic coat.



Around windows and doors extra reinforcement is made on the corners with mesh approx. 30 X 20 cm, applied diagonally.



For the transition from vertical to horizontal surfaces, eg. windows, use the special corner profile with multilayer profile.



The basic coat render THC 409 applied in thickness of 2 -3 mm with trowel or spray machine. The application becomes with uniformity in whole surface and then applied the alkaline fibreglass mesh

ClimaPLUS width 1m to THC 409 render as is not drying yet and then smoothed. Every piece of mesh must be covered the other piece at 10cm.



A second coat render THC 409 applied in thickness of 1 – 3 mm for covering the mesh. The fibreglass mesh must not appear after the second coat. The total thickness of render coat THC 409 is 3 – 5 mm.

For extra strengthening of foundation of the system can be used 2 coats of fibreglass mesh ClimaPLUS.

Step 6 Final Surface

Primer

Depending on the type of final surface render and the type of basic coat render, must be used the correct primer.

During the use of colored renders, the primer must be colored in shade of final surface.

Before the application of primer and the final surface render, the basic coat render must be dried.

For drying required 24 hours. In cooling or/and moisture conditions required 72 hours.



Stir the primer well and applied with roller.

Final Render

The final surfaces organic renders of THRAKON, DEC type, are available in different styles and can be painted in more shades of paint system of THRAKON. The available shades are above of 250 and indicated by the fan color of THRAKON with the codes.

For the selection of shade is recommended the use of light renders (light > 20). The dark shades absorb the solar radiation with danger to appear cracks because of shrinkage expansions. In fan color of THRAKON, next to code of every shade can see the brightness factor.

For dark colors preferred to use gray adhesive to bright colors white.

The final surface organic renders of THRAKON, DEC type, are available in different styles, produce in white shade and can be painted with all colors. The painting allow after 24 hours.

Before the application, the render stirred well and checked if the shade is the same with the custom.

Small fluctuations in grain size and shade is normal.

Firstly, applied in surface and then the material that excess removed in order the thickness of coat is the same with the size of grains.



Depending on the style of render use stainless steel or plastic trowel. The renders of Rillen and Scratch type must be applied with plastic trowel in order to success the correct style and avoid the discoloration of final surface.



Working methods of application teams

The working method of application team required to be tuned because the material applied with the "wet to wet surface" method but the drying time is affected by atmospheric conditions.

Therefore, must ensure a sufficient number of technicians in order to be possible to complete the

application in all sides of the masonry without break.

The application team must be worked in pairs from left to right and at the same time from up to down. The first person will applied the render and the second will configured this until create the final result.



Note: In cold weather conditions and high moisture, the setting time extended while in high temperatures with low levels of moisture, the setting time accelerated.

Important points of the system

Windows aprons

For the windows are available aprons from different materials which can be used either in new buildings either in old buildings under renovation. The dimensions of apron must be selected correct in order the end of apron must be 3 cm and the sides must adjacent

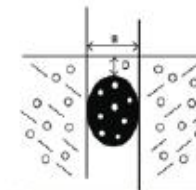
properly with the correct interior surface of the system. In joints between apron and sill of window can be used special waterproofing profiles or can be waterproofed with elastic material and rod of joints.



Joints sealing

In points that ClimaPLUS system come in contact with other materials of building (e.g. joinery, frames, marble aprons, pipes, etc.) must be construct sealing joints with thickness 1,5 to 2,5 cm. First, placed in joints rod and then filled with elastic – sealing material (e.g. polyurethane mastic)

The application of elastic – sealing material must be done above the basic coat renders and before the application of final render. Also, instead of elastic material can be selected PVC profiles for window aprons, joints of different materials, etc. or sealing tapes for joints.



1. Sealing the starter: Covering the gap over the base of starter preventing the flow of cold air into the back of the insulator.



2. Sealing of the gap of door frame: Avoids the entering of water or air in the system. It is one of the most difficult areas (hot air from the inside).



Sealing the aprons: Protecting the flow of cold air.



Sealing the bracket A / C - lighting etc: Avoids the entering of water in system. It is one of the points which usually collect water.

Contact with the ground



Under the ground, the adhesion material applied in partitions, in order to prevent moisture in adhesion area.

The substrate under the ground and 30 cm above it must be waterproofed before the installation of the system. If the waterproofing has become with bituminous materials then the thermal

insulation plate in these points bonded with bituminous material. In case that the waterproofing has made with cement based materials, the bonding become with THC products (cement based).

The basic reinforcement coat (with mesh) continues and under of ground.

Before the application of final surface render must be applied above the basic coat the 2 – component waterproofing slurry DSF 350 FLEX. The application must be get the high of 30 cm above the surface of ground. Before filling for the extra protection of the insulation, it is recommended the use of drainage membrane.



Practical tips



Gutters should not be installed into ClimaPLUS system.



The installation of electrical cables and electrical systems must be done before application of the ClimaPLUS system.



Adhesion material

Polymer modified cement based special mortar, suitable for adhesion of thermal insulation plates in external thermal insulation systems of buildings. It complies with ETAG 004.

► THC 403 – Cement based adhesive

► THC 405 – Cement based adhesive – plaster – Coarse grain

► THC 409 – Cement based adhesive – plaster

► THC 410 – Reinforcement cement based adhesive – plaster – Suitable for adhesion of mineral wool

Consumption: 3,5 – 4,0 kg/m² Shade: White and grey

Pack size: In 25Kg bags – 56 bags/pallet – 1400Kg/pallet

Thermal insulation material

Expanded Polystyrene Plates EPS

Stable expanded polystyrene plates EPS for external thermal insulation system ClimaPLUS. Certificated with CE marking according to EN 13163.

► Expanded polystyrene ClimaPLUS EPS-F 80 and EPS-F 100

Thermal conductivity factor: $\lambda=0,037$ W/mK for ClimaPLUS EPS-F 80

$\lambda=0,036$ W/mK for ClimaPLUS EPS-F 100

Dimensions: 50 x 100 cm

Thickness: 1, 1,5, 2, 3, 5, 7, 8 and 10

Thickness in stock: 3 cm – Pack size: 20 items/box Performance: 10m²/box

5 cm – Pack size: 12 items/box Performance: 6m²/box

► NEOPOR EPS 80

Thermal conductivity factor: $\lambda=0,032$ W/mK

Dimensions: 200x100cm • 100x100cm • 100x50cm • 100x60cm • 250x60cm

Thickness: 3, 4, 5, 6, 8, 9 and 10 cm

Extruded Polystyrene Plates XPS

Stable extruded polystyrene plates EPS for external thermal insulation system ClimaPLUS. Certificated with CE marking according to EN 13164.

► Extruded polystyrene ClimaPLUS

Thermal conductivity factor: $\lambda=0,029$ W/mK

Dimensions: 60 x 100 or 125 cm

Thickness: 3, 4, 5, 6, 8 and 10 cm

Mineral wool

Inflamed insulation plates of mineral wool with reinforcement thermal and sound insulation properties for external thermal insulation system ClimaPLUS. Certificated with CE marking according to EN 13162.

► Mineral wool ClimaPLUS

Thermal conductivity factor: $\lambda=0,033$ W/mK

Dimensions: 60 x 120 cm

Thickness: 2, 3, 4, 5, 6, 7 and 8 cm

Basic coat plastering

Polymer modified cement based special mortar, suitable for adhesion of thermal insulation plates in external thermal insulation systems of buildings. It complies with ETAG 004.

► THC 405 – Cement based adhesive – plaster

► THC 409 – Cement based adhesive – plaster

► THC 410 – Reinforcement cement based adhesive – plaster – Suitable for adhesion of mineral wool

Consumption: 3,5 – 4,0 kg/m²

Pack size: In 25Kg bags – 56 bags/pallet – 1400Kg/pallet

Reinforcement

Anti-alkaline fiberglass mesh for reinforce the basic coat for the external thermal insulation system ClimaPLUS. According to ETAG 004.

► Fiberglass mesh ClimaPLUS (160 g/m²)

Opening: 4 – 4,5 mm

Dimensions: In role 1m x 50m

Consumption: 1,1 m²

Pack size: 33 roles / pallet – 1650 m² / pallet



Second coat plastering

Colored acrylic primer for organic renders

Acrylic primer suitable for the preparation of substrate before the application of organic renders and colors.

► GLX 494 Prim – Colored acrylic primer

Consumption: 0,18 Kg/m² per coat – (Dilution: 50% with water)

Pack size: In plastic containers 20kg – 36 containers / pallet – 720Kg / pallet

White acrylic primer for cement based renders

Acrylic primer suitable for the preparation of substrate before the application of cement based renders and colors.

► GLX 496 Acryl – White acrylic primer

Consumption: 0,20 – 0,25 Kg/m² per coat – (Dilution: 15% to 20% with water)

Pack size: In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet



Final render

Cement based render

White cement based render, reinforcement with special resins, for the use of final coat plastering for external thermal insulation system ClimaPLUS and for interior and exterior masonries.

► DEC 424 – White inorganic render – SCRATCH type

► DEC 425 – White inorganic render – RILLEN type

Consumption: DEC 424 2,0 mm: 3,0 kg/m²

DEC 425 2,0 mm: 3,0 kg/m² • 3,5 mm: 5,7 kg/m²

Pack size: In 25Kg bags – 56 bags/pallet – 1400Kg/pallet



Acrylic render

Colored acrylic render for the use of final coat plastering for external thermal insulation system ClimaPLUS and for interior and exterior masonries.

► DEC 428 Polyplast – White acrylic render – SCRATCH or RILLEN type

Consumption: DEC 428 Polyplast – RILLEN 1,5 mm: 2,4 kg/m²
2,0 mm: 2,7 kg/m²

DEC 428 Polyplast – SCRATCH 1,0 mm: 2,3 kg/m²
1,5 mm: 2,7 kg/m²
2,0 mm: 3,2 kg/m²

Pack size: In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet



Silicate render

Colored silicate render for the use of final coat plastering for external thermal insulation system ClimaPLUS and for interior and exterior masonries. Suitable for renovation of the old facades and protection of cultural monuments.

► DEC 429 Silicate – White silicate render – SCRATCH or RILLEN type

Consumption: DEC 429 Silicate – RILLEN 1,5 mm: 2,5 kg/m²
2,0 mm: 3,0 kg/m²

DEC 429 Silicate – SCRATCH 1,0 mm: 2,3 kg/m²
1,5 mm: 2,7 kg/m²
2,0 mm: 3,2 kg/m²

Pack size: In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet



Reinforcement acrylic render with silicone additives

White acrylic render, reinforcement with silicone additives, for the use of final coat plastering in external thermal insulation system ClimaPLUS and for interior and exterior masonries.

► DEC 431 Fine – Colored acrylic render with silicone additives

Consumption: 1,0 mm: 2 kg/m²

Pack size: In plastic containers 25kg – 36 containers / pallet – 900Kg / pallet



Decorative mosaic render

Decorative mosaic render of colored marble grain, suitable for final coat plastering in external thermal insulation system ClimaPLUS and for interior and exterior masonries.

► DEC 433 Mosaic - Mosaic render with colored grains

Consumption: 1,5 mm: 5 kg/m²

Pack size: In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet



| Silicate colored render with silicone additives | | | |
|---|--|-------------------------------|--|
| Colored silicate render, reinforcement with silicone resins for the use of final coat plastering for external thermal insulation system ClimaPLUS and for interior and exterior masonries. Suitable for renovation of the old facades and protection of cultural monuments. | | | |
| DEC 437 Si & Si – Silicate colored render with silicone additives – RILLEN or SCRATCH type | | | |
| Consumption: | DEC 437 Si & Si – RILLEN | 1,5 mm: 2,5 kg/m ² | |
| | | 2,0 mm: 3,0 kg/m ² | |
| | DEC 437 Si & Si – SCRATCH | 1,0 mm: 2,3 kg/m ² | |
| | | 1,5 mm: 2,7 kg/m ² | |
| | | 2,0 mm: 3,2 kg/m ² | |
| Pack size: | In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet | | |

| Silicone render | | | |
|--|--|-------------------------------|--|
| Colored silicone render for the use of final coat plastering for external thermal insulation system ClimaPLUS and for interior and exterior masonries. It is recommended for renovation of the old facades and protection of cultural monuments. | | | |
| DEC 438 Silicone – Silicone colored render – RILLEN or SCRATCH type | | | |
| Consumption: | DEC 438 Silicone – RILLEN | 1,5 mm: 2,5 kg/m ² | |
| | | 2,0 mm: 3,0 kg/m ² | |
| | DEC 438 Silicone – SCRATCH | 1,0 mm: 2,3 kg/m ² | |
| | | 1,5 mm: 2,7 kg/m ² | |
| | | 2,0 mm: 3,2 kg/m ² | |
| Pack size: | In plastic containers 25kg – 27 containers / pallet – 675Kg / pallet | | |

Anchors and complementary

| Description | Dimensions | Pack size |
|---|------------------------|------------------------------|
|  Plastic anchor ClimaPLUS for brick. Available the European approval ETA | 60 mm x 10 mm x 80 mm | 1200 pieces per box |
| | 60 mm x 10 mm x 100 mm | 1200 pieces per box |
| | 60 mm x 10 mm x 120 mm | 1000 pieces per box |
| | 60 mm x 10 mm x 140 mm | 1000 pieces per box |
| | 60 mm x 10 mm x 160 mm | 1000 pieces per box |
|  Plastic anchor ClimaPLUS for brick. Available the European approval ETA | 45 mm x 8 mm x 100 mm | 1000 pieces per box |
|  Plastic milling | 60 mm | 10 pieces per box |
|  Mult dip profile ClimaPLUS with anti-alkaline mesh | 2,5 m x 11 cm x 6 cm | 100 pieces or 2500 m per box |
|  Mult dip ClimaPLUS | 2,5 m x 12 cm x 12 cm | 40 pieces or 100 m per box |
|  Plastic corner (PVC) ClimaPLUS with anti-alkaline mesh | 2,5 m x 17 cm x 5 cm | 25 pieces or 250 m per box |
|  Aluminum starter ClimaPLUS | 2,5 m / 33 mm | |
| | 2,5 m / 53 mm | 10 pieces or 25 m per box |
| | 2,5 m / 73 mm | |
| | 2,5 m / 83 mm | |

Costs of ClimaPLUS system

| Description | Pack size | Unit price | Consumption | Price EU/m ² |
|---|---|--------------------------|-------------------------------------|-------------------------|
| ClimaPLUS EPS-F 100 Expanded Polystyrene THRAKON 50cm x 100cm x 0,5cm Density: 18 – 20 kg/m ³ | 12 pieces / box 6 m ² / box | 80,00 € / m ³ | 2 pieces / m ³ | 4,00 |
| ClimaPLUS THC 403 Cement based adhesive for thermal insulation plates EPS, XPS Color: Grey | 25 kg | 0,24 € / kg | 4 kg / m ³ | 0,96 |
| Fiberglass mesh ClimaPLUS Anti-alkaline fiberglass mesh 160 g/m ² (4,5mm x 5mm) | 1 Role (50 m ²) 50m x 1m | 36,00 € / Role | 1,1 m ³ / m ³ | 0,79 |
| Anchors ClimaPLUS Anchors for brick Diameter: 10mm • Length: 100mm | 1200 pieces | 0,18 € / Piece | 6 pieces / m ³ | 1,08 |
| ClimaPLUS THC 409 Cement based render for EPS, XPS, mineral wool plastering | 25 kg | 0,53 € / kg | 4 kg / m ³ | 2,12 |
| Price of ClimaPLUS system without final plastering: | | | | 8,95 |

Final decorative coat for ClimaPLUS system

| Selection A' | Organic render | | | |
|---|----------------|-------------|--------------------------|-------|
| ClimaPLUS GLX 496 Acryl White acrylic primer | 20 kg | 2,30 € / kg | 0,20 kg / m ³ | 0,46 |
| ClimaPLUS DEC 424 or DEC 425 White organic render | 25 kg | 0,22 € / kg | 3,0 kg / m ³ | 0,66 |
| Price of ClimaPLUS system with final plastering: | | | | 10,07 |

| Selection B' | Organic render | | | |
|---|----------------|-------------|--------------------------|-------|
| ClimaPLUS GLX 494 Prim Colored acrylic primer | 20 kg | 2,30 € / kg | 0,18 kg / m ³ | 0,41 |
| ClimaPLUS DEC 428 Scratch (1mm) | 25 kg | 1,25 € / kg | 2,3 kg / m ³ | 2,88 |
| Price of ClimaPLUS system with final plastering: | | | | 12,24 |

| | | | | |
|--|-------------------|----------------|---|---|
| Mult dip ClimaPLUS 2,5m x 12cm x 12cm | 40 pieces per box | 1,25 € / m | – | The price of complementary depends on current measures of the project |
| Plastic corner with mesh ClimaPLUS 17cm x 5cm from PVC • Length: 2,5 m | 25 pieces / box | 0,95 € / piece | – | |
| Aluminum starter ClimaPLUS 53mm – 2,5m | 10 pieces per box | 6,92 € / piece | – | |

