

MANTO FOAMBOARD R⁺



New



Manto Foamboard R⁺ is an extruded polystyrene board that is produced specially in order to use for external thermal insulation composite systems. It has high insulation property and vapour diffusion resistance.

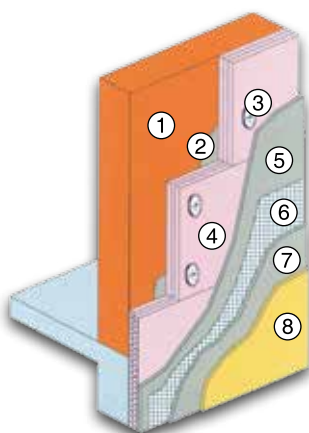
Application

First of all, the surface to be used in the application should be checked to ensure that it is smooth and dry. If the surface is rough and with scrapes, it should be cleaned by brushing. Unevenness, major defects and cracks should be repaired by means of plaster. For wood surfaces acrylic based mortar, for the other surfaces cement based fixing mortar is used. Shortly after spreading fixing mortar over the boards, they are adhered to the wall surface so that there is no gap left between the seams. The boards are laid down in an alternating pattern at the facades and the corners. When the fixing mortar is completely dry (approximately after 24 hours) the anchoring process can be started. Special insulation fastening anchors are used which are chosen with respect to the wall properties. Tiled surfaces or surfaces with old plaster are not suitable for anchoring. After anchoring process reinforced layer is formed. Cement based undercoat plaster is applied to the surface by trowel. Afterwards, an alkali resistant, glass fiber based reinforcement mesh is placed on top by trowel in such a manner that the edges are overlapped by 10 cm. Consequently, second coat plaster is applied on the mesh and the reinforced layer comes to an end. When the reinforced layer is completely dry; permeable, solvent-free decorative cladding material with the desired texture is applied to the reinforced layer using a trowel or roller and the process is completed. Exterior cladding thickness and the quantity to be applied depend on the plaster type. Different surface forms can be achieved on the finishing plaster by different polishing methods.

For detailed information visit; www.izocammanto.com
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| Thickness (cm) | Width x Length (cm) | Package (m ²) |
|----------------|---------------------|---------------------------|
| 4 | 60 x 125 | 7,50 |
| 5 | 60 x 125 | 6,00 |
| 6 | 60 x 125 | 5,25 |
| 7 | 60 x 125 | 4,50 |



- Exterior wall ①
- Fixing mortar ②
- Plastic anchor ③
- Manto Foamboard R⁺ ④
- Undercoat plaster ⑤
- Plaster loading mesh ⑥
- Undercoat plaster ⑦
- Top coat ready-to-use plaster ⑧

- High thermal insulation
- Easy to apply
- Available in different sizes
- Lightweight
- Water impermeable



TECHNICAL DATA SHEET

izocam Manto Foamboard

| Properties | Symbol | Unit | Description | | | | Tolerance | Standard |
|---|--|---------------------|----------------------|------|------|------|--------------------|---------------|
| Material | - | - | Extruded Polystyrene | | | | - | TS EN 13164 |
| Edge Profile | - | - | Square | | | | - | - |
| Surface Shape | - | - | Rough | | | | - | - |
| Density | ρ | kg/m ³ | min. 31 | | | | - | - |
| Width | w | mm | 600 | | | | ± 8 mm | TS EN 822 |
| Length | l | | 1250 | | | | ± 8 mm | TS EN 822 |
| Squareness | S _b | mm/m | max. 5 | | | | - | TS EN 824 |
| Thickness | t | mm | 40 | 50 | 60 | 70 | T1 * | TS EN 823 |
| Reaction to fire | - | - | E | | | | - | TS EN 13501-1 |
| Thermal Resistance | R _D | m ² .K/W | 1,30 | 1,65 | 2,00 | 2,30 | | TS EN 13164 |
| Declared Thermal Conductivity (10 °C) | λ_D | W/m.K | 0,030 | | | | - | TS EN 13164 |
| Water Vapor Diffusion Resistance Coefficient | MU | - | 100 | | | | MU100 | TS EN 12086 |
| Tensile Strength Perpendicular to Faces | TR | kPa | min. 200 | | | | TR200 | TS EN 1607 |
| Flatness | S _{max} | mm/m | max. 6 | | | | - | TS EN 825 |
| Dimensional Stability Under Specified Thermal and Compressive Load Conditions | ϵ_t | % | max. 5 ** | | | | DLT(1)5 DLT(2)5 | TS EN 1605 |
| Dimensional Stability Under Specified Thermal and Humidity Conditions | $\Delta\epsilon_t, \Delta\epsilon_b, \Delta\epsilon_d$ | % | max. 5 *** | | | | DS (70,90) | TS EN 1604 |
| Compressive Strength | σ_{10} | kPa | min. 200 | | | | CS(10/Y)200 | TS EN 826 |
| Freeze Thaw Resistance | FTCD | % | max. 2 | | | | FTCD ₂ | TS EN 12091 |
| Long Term Water Absorption with Total Immersion | W _{it} | % | max. 0,7 | | | | WL(T)0,7 | TS EN 12087 |
| Long Term Water Absorption with Diffusion | W _{dv} | % | max. 5 | | | | WD(V)5 | TS EN 12088 |
| Packaging Material | - | - | PE Film | | | | - | - |

* T1 : For < 50 mm +2; for 50 - 70 mm -2,+3

** TS EN 13164 / Item 4.3.3

*** TS EN 13164 / Item 4.3.2

Safety Reminders for Loading, Unloading, Shipping and Storing

- Loading and unloading should be done by (at least) two people.
- The packages should be put on top of each other with extra care.
- Only backshutter of the truck body should be opened during unloading.
- Unloading should be carried out from backside to the front.
- Products should not be put into upright position during shipping and storing.
- Products should not be pulled by their package.
- Products should not be stepped on.
- The packages should be put on the floor with extra care so the corners of the product especially is not damaged by a hit.
- Storing can be carried out by superposing the products with or without pallets.
- Products should not be shipped with the materials containing organic solvents (thinner, paint, fuel oil, acetone, etc.).
- Combustible, flammable, hazardous materials should not be stored in storage area and there should be fire extinguishing equipment available.

Izocam is not responsible for any problem because of misprinting. Izocam, the manufacturer, reserves the right to alter product specifications without prior notice. Izocam also manufactures special products upon request. For your requirements, you are requested to contact our Export Department.

