MANTO IZOPOR PLUS







Manto Izopor Plus is a carbon reinforced expanded polystyrene board that is produced specially with respect to TS EN 13499 standards for external thermal insulation composite systems. It should not be stored in direct sunlight even for a short period due to its dark colour.

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.

Thickness (cm)	Width x Length (cm)	Package (m²)		
3	50 x 100	8,00		
4	50 x 100	6,00		
5	50 x 100	5,00		
6	50 x 100	4,00		
7	50 x 100	3,50		
8	50 x 100	3,00		
10	50 x 100	2,50		
12	50 x 100	2,00		
14	50 x 100	1,50		



- High thermal insulation
- Easy to apply
- Lightweight



TECHNICAL DATA SHEET

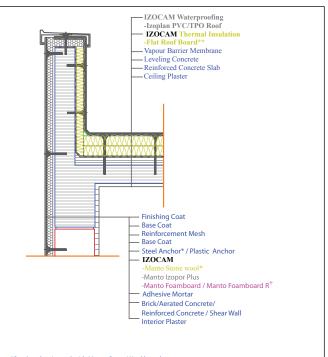
İzocam Manto Izopor Plus

Properties	Symbol	Unit	Description									Tolerance	Standard
Material			Expanded Polystyrene (Carbon reinforced)								TS EN 13163		
Density	ρ	kg/m³	16								-1	-	
Width	w	mm	500								± 2 mm (W2)	TS EN 822	
Length	I	mm	1000								± 2 mm (L2)	TS EN 822	
Thickness	t	mm	30	40	50	60	70	80	100	120	140	± 1 mm (T1)	TS EN 823
Reaction to fire	-	-	E							-	TS EN 13501-1		
Declared Thermal Conductivity (10 °C)	λ_{D}	W/m.K	0,032							-	TS EN 13163		
Thermal Resistance	R _D	m².K/W	0,90	1,25	1,55	1,85	2,15	2,50	3,10	3,75	4,35	-	TS EN 13163
Squareness	S _b	mm/m	S2								+2	TS EN 824	
Flatness	S _{max}	mm	P5								5	TS EN 825	
Dimensional Stability	-	%	DS(N)2								±%0,2	TS EN 1605	
Bending Strength	-	kPa	BS 100								-	TS EN 12089	
Compressive Strength	σ ₁₀	kPa	CS(10)60								-	TS EN 826	
Water Absorbtion by Total Immersion	W _{it}	%	WL(T)3								≤ % 3	TS EN 12097	
Dimentional Stability Under Specified Temp. and Humidity Conditions	$\Delta \epsilon_{_{l}}, \Delta \epsilon_{_{b}}, \ \Delta \epsilon_{_{d}}$	%	DS(70,90)1								< %1,0	TS EN 1604	
Tensile Strength Perpendicular to Faces (min.)	$\sigma_{_{mt}}$	kPa	TR150							-	TS EN 1607		
Packaging Material	-	-	PE Film								-	-	
Other Information	Manto Izopor Plus insulation boards are produced regarding to the technical specifications of insulation boards stated in TS EN 13499 standards for "Expanded polystyrene based external thermal insulation composite systems" and in compliance with TS 7316-1 EN 13163 standard.												

Safety Reminders for Loading, Unloading, Shipping and Storing

- These operations should be done indoors in case of rainy weather conditions.
- 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.
- The products should be wrapped by a waterproof cover even if the shipping distance is short.
- Products should not be put into upright position during shipping and storing.
- Products can be stored with or without pallets by superposing the packages.
- Products should not be pulled by their package.
- Products should not be stepped on and should not be used as steps.
 The packages should be put on the floor with extra care so the
- corners of the product especially is not damaged by a hit.
 Precautions should be taken against sun, rain and exposed flame.
- When the packages piled in the truck body are being tied up hard padding (wood, cardboard, etc.) should be put on the corners of the packages to protect them against possible damages by ropes.
- Products should be stored in their packages until the application.
 The packages should not be stocked too close to each other by fr
- The packages should not be stacked too close to each other by force in order to gain space.

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.



*Steel anchor is used with Manto Stone Wool boards. ** Compressive strenght should be determined depending on the distributed loads that Izocam insulation boards are subjected to.



