

# FOAMBOARD

1500 P - 2000 P - 2500 P - 3000 P - 3500 P



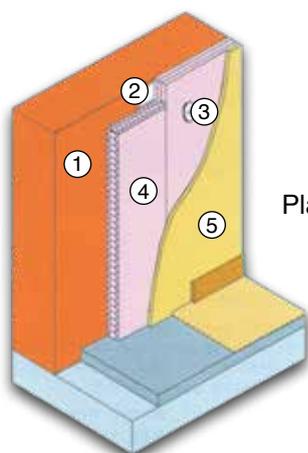
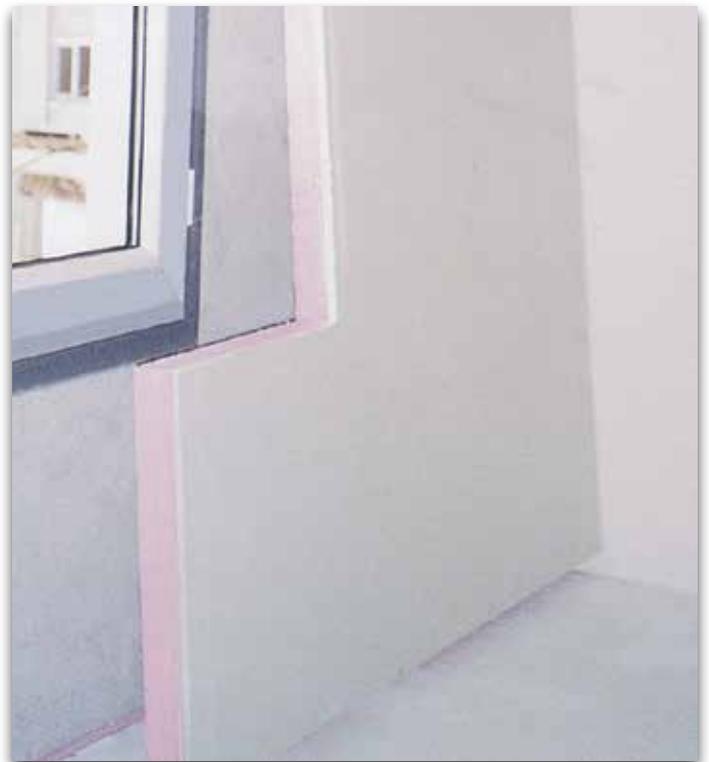
Foamboard thermal insulation board is extruded polystyrene board with rough surface. It is used for the internal insulation of the exterior walls owing to its high insulation property and vapour diffusion resistance.

## Application

There are two different methods used for the internal insulation of exterior walls: Plaster method and dry plaster method. For plaster method, the boards are adhered by cement based fixing mortar to the inner wall surface in a manner that the joints are aligned. The application is completed by adhering waste strip to the joint. For dry plaster method, the boards faced with 1,25 cm gypsum board on one side, are adhered to the wall by cement based fixing mortar. Before the adhering application, roughness of the wall surface should be minimized.

After the boards are adhered, the application is completed by standard connection and finish techniques. For the internal insulation of the exterior walls, it is important to take precautions to avoid thermal bridges at where the slabs, columns, beams and curtains connect to the exterior wall.

Thickness (cm)	Width x Length (cm)	Package (m <sup>2</sup> )	Package (m <sup>3</sup> )
2,5	60 x 120	11,52	0,2880
3	60 x 120	10,08	0,3024
4	60 x 120	7,20	0,2880
5	60 x 120	5,76	0,2880
6	60 x 120	5,04	0,3024
7	60 x 120	4,32	0,3024
8	60 x 120	3,60	0,2880
9	60 x 120	2,88	0,2592
10	60 x 120	2,88	0,2880
12	60 x 120	2,16	0,2592



- ① Exterior wall
- ② Fixing mortar
- ③ Plastic anchor
- ④ Foamboard
- ⑤ Plaster or gypsum board

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



# TECHNICAL DATA SHEET

## Izocam Foamboard 1500 P - 2000 P - 2500 P - 3000 P - 3500 P

Properties		Symbol	Unit	Description								Tolerance	Standard	
Material		-	-	Extruded Polystyrene								-	TS EN 13164	
Edge Profile		-	-	Square, Ship-lap								-	-	
Surface Shape		-	-	Rough								-	-	
Material Type		-	-	1500 P	2000 P	2500 P	3000 P	3500 P				-	-	
Compressive Strength (10 % deformation)		$\sigma_{10}$	kPa	min. 150	min. 200	min. 250	min. 300	min. 350	CS(10/Y) 150 200 - 250 - 300			TS EN 826		
Density		$\rho$	kg/m <sup>3</sup>	min. 20-21	min. 24-30	min. 26-30	min. 27-30	min. 28-32				-	-	
Tensile Strength Perpendicular to Faces		TR	kPa	min. 200	min. 200	min. 400	min. 400	min. 600	TR200 - TR400 TR 600			TS EN 1607		
Water Vapor Diffusion Resistance Coefficient		MU	-	80	80	100	100	100	MU80 - MU100			TS EN 12086		
Width		w	mm	600								± 8 mm	TS EN 822	
Length		l	mm	1200								± 8 mm	TS EN 822	
Squareness		$S_b$	mm/m	max. 5								-	TS EN 824	
Flatness		$S_{max}$	mm/m	max. 6								-	TS EN 825	
Thickness	1500 P	t	mm	25	30	40	50	-	-	-	-	T1 *	TS EN 823	
	2000 P			-	-	40	50	60	70	80	90			-
	2500 P			-	-	40	50	60	70	80	90			-
	3000 P			-	-	40	50	60	70	80	90			-
	3500 P			-	-	40	50	60	70	80	90			120
Reaction to fire		-	-	E								-	TS EN 13501-1	
Thermal Resistance		$R_D$	m <sup>2</sup> .K/W	0,70	0,85	1,10	1,40	1,70	2,00	2,25	2,55	3,40	-	TS EN 13164
Declared Thermal Conductivity (10 °C)		$\lambda_D$	W/m.K	0,035								-	TS EN 13164	
Freeze Thaw Resistance		FTCD	%	max. 2								FTCD <sub>2</sub>	TS EN 12091	
Dimensional Stability Under Specified Thermal and Humidity Conditions		$\Delta\varepsilon_t, \Delta\varepsilon_b, \Delta\varepsilon_d$	%	max. 5 **								DS (70,90)	TS EN 1604	
Dimensional Stability Under Specified Thermal and Compressive Load conditions		$\varepsilon_t$	%	max. 5 ***								DLT(1)5 DLT(2)5	TS EN 1605	
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								-	-	
Other Information		Densities change according to thickness for detailed information contact with Izocam.												

\* T1 : +2 for < 50 mm; -2,+3 for 50 - 120 mm; -2,+3 for > 120 mm. According to customer demands can be produced in T2 or T3 thickness class.

\*\* TS EN 13164 / Item 4.3.2

\*\*\* TS EN 13164 / Item 4.3.3

### 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.

