



Optimum wall is a special glass wool blanket faced with kraft paper on one side. It is used for thermal and sound insulation of exterior walls, inner face of all type of reinforced concrete components, interior and adjacent walls, periphery walls of staircases and elevator shafts and as internal wall lining timber framed buildings. For installation it has a system with its special profiles, fastening equipments and accessories.

Application

U profile is fastened to the wall with an anchor at every 45 cm. The distance to be left should be 1 cm longer than the insulation material thickness. The same process is repeated for the floor if the walls are not vertical. If the wall is lower than 270 cm, a C profile is fastened to the center of the wall at every 60 cm by anchoring. C profile is fastened to the wall at every 135 cm if the wall is higher than 270 cm. Fastening rods are placed into the wall at 60 cm intervals horizontally. After Optimum blanket is installed into the fastening rods, adjusting nut is secured fastening rods. C profiles are placed into the the adjusting nut threads vertically in a manner that C profiles are inserted into the U profiles which were installed at the ceiling and the floor. All wall surface is adjusted with plumb line by the help of fastening rods. Then the wall surface becomes ready for the gypsum board application.

Despite the fact that Optimum Wall is in blanket form, it can also rise to an upright position like a board owing to its special fibre structure.

Thickness (cm)	Width x Length (cm)	Package (m ²)
5	120 x 1350	16,2
8	120 x 540	6,48



- Fire safety
- High sound insulation – 56 dB
- Easy to apply
- High thermal insulation
- Available in different sizes
- Lightweight



TECHNICAL DATA SHEET

İzocam Optimum Wall

Properties	Symbol	Unit	Description		Tolerance	Standard
Material	-	-	Glass Wool		-	TS EN 13162
Density	ρ	kg/m³	15	22	+/-10%	-
Width	w	mm	1200		+/-1,5%	TS EN 822
Length	l	mm	5400	13500	+/-2%	TS EN 822
Thickness	t	mm	80	50	T1 **	TS EN 823
Facing	-	-	Kraft Paper		-	-
Reaction to fire	-	-	NPD		-	TS EN 13501-1
Dimensional Stability	Δε _d	%	max. 1		-	TS EN 1604
Declared Thermal Conductivity (10 °C)	λ _D	W/m.K	0,040	0,035	-	TS EN 12667/12939
Thermal Resistance	R _D	m².K/W	2,00	1,40	-	TS EN 13162
Specific Heat *	c	kJ/(kg.K)	0,84		-	EN 12524
Dynamic Elasticity *	Edyn	kN/m²	0,8		-	DIN 52214
Packaging Material	-	-	PE Film		-	-
Other Information	Maximum service temperature on the side faced with kraft paper is 90 °C.					

* Literature value.

** T1: -5% or -5 mm, the biggest value is chosen at minus tolerance.

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.
- Products should be wrapped by a waterproof cover even if the shipping distance is short.
- Products should not be superposed with pallets.
- Products should not be put into upright position.
- Products should not be stepped on and should not be used as steps.
- Products should not be pulled by their package.
- Products should be in packages (10 each) and maximum 6 packages can be superposed.
- Before binding, hard cardboards (minimum 20 x 50 cm) should be put on the corners of packages to protect against possible damages by ropes.
- Storage area should be protected against any wet threats such as rain, float, etc. Indoor spaces should be preferred.
- The packages should be put on the floor with extra care so the corners of the product especially is not damaged by a hit.

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