

TECHNICAL DATA SHEET of İZOCAM PARTITION WALL BOARD

Properties	Unit	Description	Tolerans	Standard
Width	mm	600	+/-1,5%	TS EN 822
Length	mm	1200	+/-2%	TS EN 822
Thickness	mm	40* 50 60 80 100	T3(**)	TS EN 823
Reaction to Fire	-	A1	-	TS EN 13501-1
Squareness	mm/m	max.5	-	TS EN 824
Flatness	mm	max.6	-	TS EN 825
Dimensional Stability	%	max.1	-	TS EN 1604
Maximum Service Temperature	°C	250	-	-
Specific Heat (***)	kJ/(kg.K)	0,84	-	EN 12524
Water Vapor Diffusion Resistance Coefficient (***)	-	1	-	TS EN 12086
Dynamic Elasticity (***)	kN/m ²	0,8	-	DIN 52214
Packaging Material	-	PE Film	-	-

(*) Produce as a plus.

(**) T3: -3% or -3 mm; +10% or 10 mm. The biggest value is chosen at minus tolerance, the smallest value is chosen at plus tolerance.

(***) Literature value.



Thickness mm	PACKAGE				PALLET			
	(m ²) / Package		(m ²) / Truck		(m ²) / Pallet		(m ²) / Truck	
	PWL	PWL R ⁺	PWL	PWL R ⁺	PWL	PWL R ⁺	PWL	PWL R ⁺
40	-	12,96	-	2.268	-	207,36	-	2.073,6
50	11,52	10,08	2.016	1.764	230,40	161,28	2.304	1.612,8
60	8,64	8,64	1.512	1.512	172,80	138,24	1.728	1.382,4
75	7,20	7,20	1.260	1.260	144,00	115,20	1.444	1.152,0
80	7,20	6,48	1.260	1.134	144,00	103,68	1.444	1.036,8
100	5,76	5,04	1.008	882	115,20	80,64	1.152	806,4



MASTER FRIENDLY PARTITION WALL BOARD



**PARTITION
WALL BOARD**

NEW PRODUCT FROM İZOCAM

PARTITION WALL BOARD



İzocam introduces the easy-to install master-friendly “**Partition Wall Board**”!

Unique features and ensuring thermal and sound insulation and fire safety, making “**İzocam Partition Wall Board**” a master-friendly product.

Flexible and soft Partition Wall Board is **MASTER-FRIENDLY** and it creates comfortable working spaces with easy-to-cut and dust free qualities. Easy to transport thanks to its lightweight composition and user friendly carrying handle, these boards can stand without any support and never collapse during application. Requiring no additional materials and workmanship, İzocam Partition Wall Board ensure swift application for the installers while saving time and sustaining the quality of application.

Carrying itself and the boards stacked on top, the master-friendly İzocam Partition Wall Board do not collapse or fall down, deteriorate or spoil or become mouldy or rusty over time. These boards are also protected against insects and microorganisms. Specially designed packaging guarantees transport and storage advantages while facilitating easy handling.

PROPERTIES

- **Lightweight**
 - **Flexible**
 - **Stands upright, carries itself**
 - **Easy to cut**
- **Easy to install**
 - **Dust free**
 - **Itch free**
 - **Harmless to health**
- **Easy to handle**
 - **Helps sound insulation**
 - **Fire-proof “A1 Non-combustible” class**
 - **Provides good thermal insulation**

APPLICATION

- Channel of the partition wall is fastened to the floor and to the ceiling with an anchor at every 60 to 80 cm. It is recommended to apply rubber tapes (İzocamtape) to the channel's surface which faces to the floor and the ceiling in order to avoid sound bridges.
- Studs of the partition wall are mounted inside the channels to create the frame of the partition wall. Studs in which the insulation material is to be filled are installed in channels back to back at every 60 cm.
- After completing the load-bearing construction of the partition wall, rubber tapes (İzocamtape) are also recommended to apply stud's surface to avoid sound bridges. Then, gypsum boards are installed on one surface.
- “İzocam Partition Wall Board” of 60 cm width are installed between studs and gypsum boards are installed on the other surface.
- Self-adhesive plaster mesh is cladded on the joint sections of the gypsum boards. After applying plaster, surfaces can be painted as desired.



PERFORMANCE

Sound Insulation

Described as an undesired sound, noise is caused by external environmental sources or an indoor noise source in the next door. Sound insulation in buildings was made obligatory with the provisions of the “Regulation on Protection against Noise in Buildings” published in May 2017. According to its function and sensibility, partition wall performance was classified from A to F in buildings. İzocam Partition Wall Board guarantees Class “A” sound insulation performance.

Sound Insulation Performance of Partition Wall Board

Single frame, single layer systems

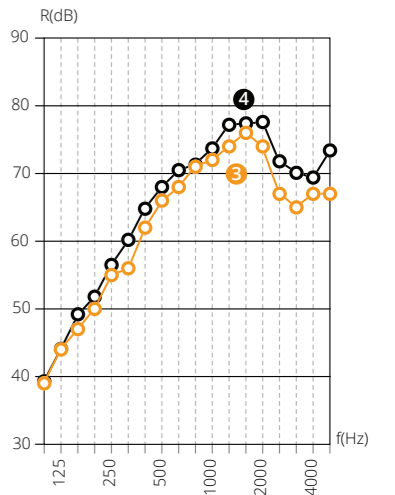
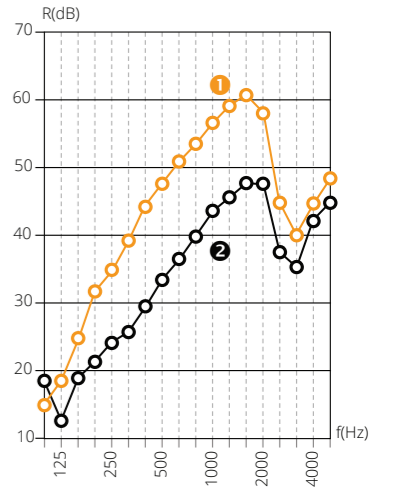
Frame Thickness	Gypsum Board	Insulation Partition Wall Board	Gypsum Board	Wall Thickness	Sound Transmission Loss R_w (C;C _p)	
					w/ insulation	w/o insulation
mm	mm	mm	mm	mm	dB	
50	1x12,5	50	1x12,5	75	1 42 (-3;-9)	2 34 (-1;-6)
75	1x15	75	1x15	105	46 (-3;-9)	39 (-2;-7)
100	1x15	100	1x15	130	47 (-3;-7)	39 (-2;-7)

Single frame, double layer systems

Frame Thickness	Gypsum Board	Insulation Partition Wall Board	Gypsum Board	Wall Thickness	Sound Transmission Loss R_w (C;C _p)	
					w/ insulation	w/o insulation
mm	mm	mm	mm	mm	dB	
50	2x12,5	50	2x12,5	100	51 (-4;-11)	42 (-2;-7)
75	2x12,5	75	2x12,5	125	52 (-2;-7)	44 (-2;-7)
100	2x12,5	100	2x12,5	150	53 (-2;-6)	46 (-1;-6)

Double frame, double layer systems

Frame Thickness	Gypsum Board	Insulation Partition Wall Board	Gypsum Board	Wall Thickness	Sound Transmission Loss
					R_w (C;C _p)
mm	mm	mm	mm	mm	dB
3	2x50	2x50	2x12,5	150	64 (-2;-7)
4	2x50	2x50	3x12,5	163	66 (-3;-9)



Thermal Insulation

İzocam Partition Wall Board can be used on the walls next to an unheated space or to ensure thermal comfort on the adjacent walls. With its high thermal insulation properties, it protects your environment from heat in summer and cold in winter, leaving you with the desired indoor temperature and ensuring sustainable comfort. **Its performance is up to 10 times better than the conventional walls and much lighter.**

Partition Wall Board

Thickness	d	mm	50	60	75	80	100
Thermal Conductivity Value (10 C)	λ_D	W/m K	0,037				
Thermal Resistance	R_D	m ² .K/W	1,35	1,60	2,00	2,15	2,70

Partition Wall Board

Thickness	d	mm	40	50	60	75	80	100
Thermal Conductivity Value (10 C)	λ_D	W/m K	0,035					
Thermal Resistance	R_D	m ² .K/W	1.10	1,40	1,70	2,10	2,25	2,85

Fire Safety

The fire regulation dictates that walls of the high-rise buildings and buildings incorporating cinema, theatre, halls with a capacity of over 100 people must be composed of hardly flammable materials. İzocam Partition Wall Board can be safely used against fire in all types of buildings thanks to its **Class A1 Non-combustible** properties.