

AEMIX WALL

PLASTERBOARD SOUNDPROOFING PANEL COUPLED WITH AGGLOMERATE FOR COUNTER-PLATING

Multilayer panel for acoustic insulation improvement of existing walls, made up of a 12.5 mm thick plasterboard panel and a soundproofing ecological panel (90 kg/m³ density) made up of a flexible polyurethane foam flakes agglomeration obtained from the recycling of production scraps or end of life products bound by mass-polymerized polyurethanes, with no use of CFC/HFC.

The AEMIX WALL panel, directly plated on the existing wall with poor acoustic performance and coupled with an extra plasterboard panel, increases considerably the soundproofing power of the wall itself with a reduced increase of thickness and it is therefore very effective in case of renovations and redevelopments whereas the insulation requirements imposed by D.P.C.M. 5/12/97 are not met.

ACOUSTIC PERFORMANCES

COUNTER-PLATING ON ONE SIDE

LAYER	THICKNESS cm	MASS SURFACE Kg/m ²
Plaster	1.5	23
Poroton vertical holes perforated brick	8	97
AEMIX WALL fixed with screws and dowels	3.25	12
Plasterboard panel screwed in a staggered way	1.25	9

TEST RESULTS

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power	(R _w)	dB	54	UNI EN ISO 140-3 UNI EN ISO 717-1	Cert.n° 112-09-acuAS
Soundproofing power of the panel alone	(R _w)	dB	31	UNI EN ISO 10140-2 UNI EN ISO 717-1	Cert.n° 004-12 IAP

COUNPER-PLATING ON BOTH SIDES

LAYER	THICKNESS cm	MASS SURFACE Kg/m ²
Plasterboard panel screwed in a staggered way	1.25	9
AEMIX WALL fixed with screws and dowels	3.25	12
Poroton vertical holes perforated brick	8	97
AEMIX WALL fixed with screws and dowels	3.25	12
Plasterboard panel screwed in a staggered way	1.25	9

**TEST RESULTS**

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power	(R_w)	dB	61	UNI EN ISO 140-3 UNI EN ISO 717-1	Cert.n° 113-09-acuAS
Soundproofing power of the panel alone	(R_w)	dB	31	UNI EN ISO 10140-2 UNI EN ISO 717-1	Cert.n° 004-12 IAP

THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,0619	UNI EN 12667:2002	Cert.n° 118-09-the TR
Thermal resistance	(R)	m ² K/W	0,512	UNI EN 12667:2002	Cert.n° 118-09-the TR
Thermal transmission	(U)	W/m ² K	1,953	UNI EN 12667:2002	Cert.n° 118-09-the TR

CHEMICAL PERFORMANCES

CHARACTERISTIC	PERFORMANCES
Chemical interactions	Highly resistant to acids and alkaline detergents, rot proof, it retains its characteristics unchanged over time
Electrostatic	Does not accumulate static charge and prevent interaction between materials
Environmental sustainability	100% Recyclable

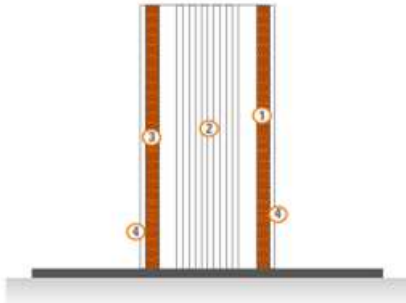
SPECIFICATION

The increase of airborne noises acoustic insulation of brick vertical partitions will be obtained by laying, in adherence with the existing wall, a suitable soundproofing ecological panel made up of flexible expanded polyurethane flakes agglomeration obtained by the recycling of production scraps or end of life products bound by mass-polymerized polyurethanes, with no use of CFC/HFC, 90 kg/m³ density and 20 mm thickness, having also good thermal insulation properties, coupled with a 12.5 mm thick plasterboard panel, such as AEMIX WALL by VALLI ZABBAN. The counter wall will be completed with a further layer of plasterboard panels assembled in a staggered way in respect to AEMIX WALL.

The system, applied only on one or both sides of the existing wall with poor soundproofing power, with only little increase of thickness, will result effective to restore the compliance with the minimum insulation requirements imposed by D.P.C.M. 5/12/97.



APPLICATION - WALL



- 1) AEMIX WALL
- 2) Thermal brick
- 3) AEMIX WALL
- 4) Plasterboard panel

APPLICATION TYPE

APPLICATION METHOD COUNTER-PLATING

1° layer

Fix with dowels the already coupled panels to the wall after having perfectly brought them close together (c.g. side outside)

FIXING METHOD: 6 DOWELS PER PANEL

2° layer

Stagger the additional plasterboard sheets in respect to the first layer and screw them on it; then proceed with the finishing operations

FIXING METHOD: SCREWS

IMPORTANT: The plasterboard wall must be decoupled from the exiting lateral structures on the entire perimeter with an elastic material (such as ISOLBAEND).

DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	32.5
Panel dimensions	m	2x1,2
Panel surface	m	2.4
Weight per m ²	Kg/m ²	11,1
Number of panels per pallet	piece	25
Total area per pallet	m ²	60
Pallet dimension	cm	200x120x82+10

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