SINCE 1928
Valli Zabban
RUBBER TECHNOLOGIES

AETOLIA

AEFAST WALL 20

PLASTERBOARD SOUNDPROOF PANEL COUPLED WITH HIGH DENSITY RUBBER FOR COUNTER-PLATING

Panel to be used for counter-plating made up of a 12,5 mm thick plasterboard panel and one of 750 kg/m^3 density 20 mm thick rubber made up of natural and synthetic elastomers coming from the recycling of E.L.T. (end of life tyres) bound by mass polymerized polyurethanes.

ACOUSTIC PERFORMANCES

COUNTER-PLATING OF ONE SIDE

LAYER	THICKNESS cm	MASS SURFACE Kg/m²
Plaster	1.5	23
Holed brick	8	48
5 cm Pillar with AEFASTICK	4	40
AEFAST WALL 20	***3.25***	***24,6***

RESULTS

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power	(R_w)	dB	63	UNI EN 12354-1	Calculated Value

COUNTER-PLATING ON BOTH SIDES

LAYER	THICKNESS cm	MASS SURFACE Kg/m²
AEFAST WALL 20	***3.25***	***24,6***
5 cm Pillar with AEFASTICK	4	40
Holed brick	8	48
5 cm Pillar with AEFASTICK	4	40
AEFAST WALL 20	***3.25***	***24,6***

RESULTS

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power	(R_w)	dB	63	UNI EN 12354-1	Calculated Value

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THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal Conductivity	(λ)	W/mK	0,13	UNI EN 12667:2002	Calculated value
Thermal Resistance	(R)	m^2K/W	0,25	UNI EN 12667:2002	Calculated value
Thermal Transmission	(U)	W/m^2K	4	UNI EN 12667:2002	Calculated value

PHISICAL-MECHANICAL PERFORMANCES ISOLNOISE MAT

DESCRIPTION	M.U.	VALUE	TOLERANCES
Rubber density	Kg/m^3	750	± 7 %
Rubber thickness	mm	20	± 10 %

DESCRIPTION	M.U.	VALUE	NORMS
Elongation percentage at break	%	27	
Heat resistance	°C	Up to + 80	
Cold resistance	°C	Up to - 30	
Fire rating		B2	DIN 4102
SHORE A hardness		50	

CHEMICAL PERFORMANCES

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

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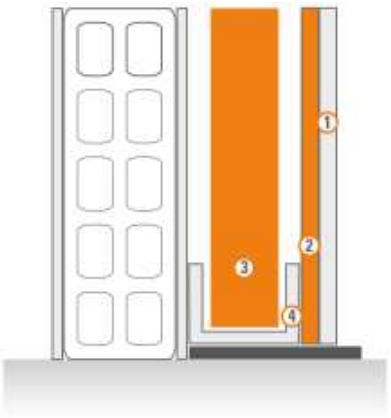
SPECIFICATION

The increase of the acoustic insulation from airborne noises of brick vertical partitions will be obtained by the application, in adhesion with the existing wall, of a suitable elastic and sound proof panel made up of natural and synthetic recycled elastomers, bound by mass polymerized polyurethane, 750 kg/m^3 density, 20 mm thickness, coupled with a 12,5 mm. plasterboard panel such as AEFAST WALL 20 by VALLI ZABBAN.

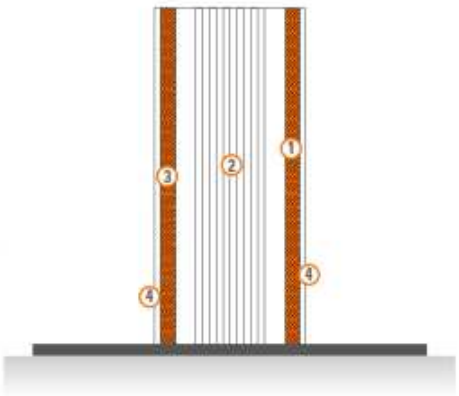
The counter-wall will be completed with a further layer of plasterboard panels assembled in a staggered way in respect to AEFAST WALL 20.

The system, applied only on one or both sides of the existing wall with low soundproof power, compared to a limited increase of thickness, will result efficient to reinstate the compliance with the insulation minimum requirements imposed by D.P.C.M 5/12/97

APPLICATION - WALL



1) Plasterboard panel
2) AEFAST WALL
3) AEFASTIK
4) Metallic frame



1) AEFAST WALL
2) Thermal brick
3) AEFAST WALL
4) Plasterboard panel

APPLICATION TYPE

APPLICATION METHOD IN COUNTER-PLATING

1° layer

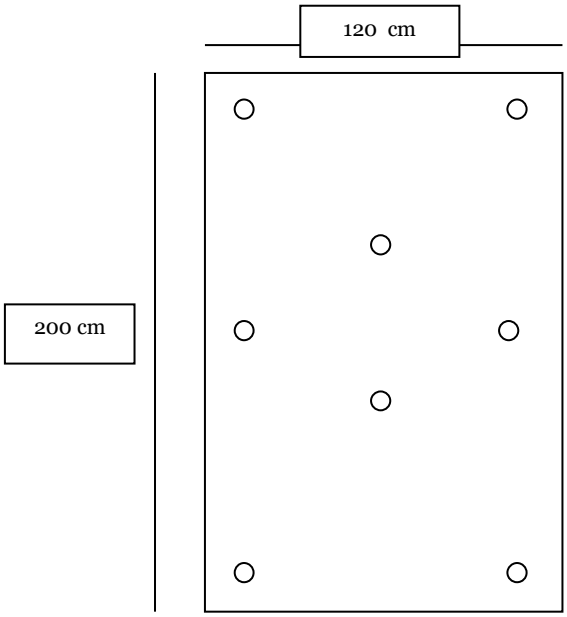
Fix the panels already coupled to the wall by mechanical fastening as for enclosed diagram (side c.g. on the outside)

2° layer

Fix the additional plasterboard panels to the first layer in the staggered way by plot of cast based glue; then proceed with the finishing operations.

FIXING METHOD: SCREWS about 8 per panel as in the diagram.

IMPORTANT: The plasterboard wall must be decoupled from the existing lateral structures with elastic material (such as ISOLBAEND) all around the perimeter.



APPLICATION METHO

DON STRUCTURE

AEFAST WALL 20 is applied on metallic frame or on existing structures (plasterboard wall) or pre-existing brick wall, wood partitions, metal or other materials. Afterwards we can proceed with the finishing paint.

DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	32.50
Panel height	m	2x1.2
Panel length	m^2	2.4
Weight per m^2	Kg/m^2	24
Number of rolls per pallet	pz	20
Pallet total surface	m^2	48
Pallet dimension	cm	200x120x90+10

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