



## AEFASTICK RUBBER

**HIGH DENSITY ACOUSTIC INSULATION MADE OF PET AND RUBBER FOR BRICKWORKS WITH CAVITY OR PLASTERBOARD STRUCTURES**

Panel to be used in brickworks with cavity or in plasterboard structures, made of two polyester panels with an interposed high density rubber plate made up of natural and synthetic elastomeric compounds coming from the recycling of ELT (end of life tyres) bound by mass-polymerized polyurethanes.

### ACOUSTIC PERFORMANCES

#### DOUBLE WALLS TEST STRATIGRAFY

LAYER	THICKNESS cm	MASS SURFACE Kg/m <sup>2</sup>
Plaster	1.5	23
Plank partitions	12	90
<b>AEFASTICK RUBBER</b>	<b>4.4</b>	<b>4.2</b>
Plank partitions	8	60
Plaster	1.5	23

#### TEST RESULTS

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power	(R <sub>w</sub> )	dB	55	UNI EN ISO 140-3 UNI EN ISO 717-1	Cert.n° 245
Absorbance coefficient	(α <sub>s</sub> )		See graphic	UNI EN ISO 354 UNI EN ISO 11654	Cert.n° 249-251

FREQUENCY (hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
<b>α<sub>s</sub></b> <b>POLYESTER</b> <b>DENSITY 40</b> <b>Kg/m<sup>3</sup></b>	<b>0,03</b>	<b>0,09</b>	<b>0,11</b>	<b>0,16</b>	<b>0,16</b>	<b>0,24</b>	<b>0,30</b>	<b>0,37</b>	<b>0,45</b>	<b>0,53</b>	<b>0,60</b>	<b>0,65</b>	<b>0,65</b>	<b>0,70</b>	<b>0,68</b>	<b>0,64</b>	<b>0,67</b>	<b>0,67</b>



<b>FREQUENCY (hz)</b>	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
<b>αs POLYESTER DENSITY 20 Kg/m3</b>	0,01	0,10	0,12	0,18	0,16	0,24	0,30	0,34	0,39	0,45	0,49	0,52	0,58	0,57	0,55	0,57	0,57	0,63

### THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,0368	UNI EN 12667:2002	Cert.n° 048-10-the TR Cert.n° 049-10-the TR Cert.n° 079-09-the TR
Thermal resistance	(R)	m² K/W	1,195	UNI EN 12667:2002	Cert.n° 048-10-the TR Cert.n° 049-10-the TR Cert.n° 079-09-the TR
Thermal transmission	(U)	W/m² K	0,836	UNI EN 12667:2002	Cert.n° 048-10-the TR Cert.n° 049-10-the TR Cert.n° 079-09-the TR

### PHYSICAL-MECHANICAL PERFORMANCES

DESCRIPTION	M.U.	VALUE	TOLERANCES
Rubber density	Kg/m³	750	± 7 %
Rubber thickness	mm	4	± 10 %
Polyester density	Kg/m³	20-40	± 7 %
Polyester thickness	mm	20-20	± 10 %

DESCRIPTION	M.U.	RUBBER VALUE	POLYESTER VALUE	NORMS
Elongation percentage at break	%	27		
Heat resistance	°C	Up to + 80	Up to + 120	
Cold resistance	°C	Up to -30	Up to -40	
Fire rating		B2	1	DIN 4102
SHORE A hardness		50		



## CHEMICAL PERFORMANCES

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

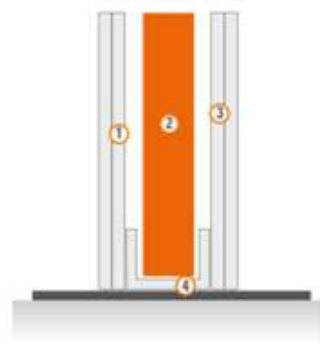
## SPECIFICATION

Airborne noises acoustic insulation of bricks or plasterboard double walls obtained by the application in the cavity of a soundproofing and sound impeding ecological panel, made up of a layer of natural and synthetic elastomeric compounds coming from the recycling of E.L.T. 750 kg/m<sup>3</sup> density, 4 mm thickness, inserted between two layers of thermally bounded polyester fibre of 20-40 kg/m<sup>3</sup> density, 20 mm thickness each, 1200 mm x 600 mm dimensions and 44 mm overall thickness, such as AEFASTICK RUBBER by VALLI ZABBAN.

## APPLICATION – WALL



- 1) 1,5 cm Plaster
- 2) Brick
- 3) AEFASTICK RUBBER
- 4) Brick
- 5) 1,5 cm. Plaster



- 1) 15 mm Double plasterboard panel
- 2) AEFASTICK RUBBER
- 3) 15 mm Double plasterboard panel
- 4) Metallic structure

## APPLICATION TYPE - FLOOR

Double wall with cavity

APPLICATION METHOD:

Apply the panel in contact with the first made vertical partition; after the fastening, carry out the second closing partition in adjacency with the panel limiting the compression to the minimum.

With plastic dowel

With single component polyurethane glue



### DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Panel thickness	mm	44
Panel dimensions	m	1.20X0.6
Panel surface	m <sup>2</sup>	0.72
Weight per m <sup>2</sup>	Kg/m <sup>2</sup>	4.2
Number of panels per pallet	piece	80
Total area per pallet	m <sup>2</sup>	57.6
Pallet dimension	cm	120X120X176+10

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