THERMOMAX BIT 45+5 mm



ADVANTAGES

Ideal in the plasterboard sector It is not afraid of water Also applicable on the roof

DESCRIPTION

Thermo-acoustic panel composed of a polyester fiber panel coupled to an elastomeric membrane for a total thickness of 50 mm.

The product has excellent soundproofing performance for plasterboard walls and counterwalls, but it can also be used for acoustic reclamation of industrial roofs.

Correct installation is guaranteed by sealing the joints with Rotocell AD adhesive band.

SIZE				
Thickness	mm	45+5 mm		
Format	Panel	1,20 x 1,42 m		
Packaging	Pallet	42,6 m ²		
Weight	Kg/m²	7,0 Kg/m ²		

TECHNICAL DATA				
Noise reduction	$R_{\rm w}$	28 dB	UNI EN ISO 140/3 UNI EN ISO 717/1	
Thermal conductivity	λ	0,0369 W/mK		



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SIZE				
Thickness	D	45,0*10 ⁻³ m		
Side 1 temperature	t ₁	0,01 °C		
Side 2 temperature	t ₂	20,01 °C		
Medium temperature	t _m	10,01 °C		
Cold side heat flow	$q_{\scriptscriptstyle 1}$	17,4 W/m²		
Hot side heat flow	q_2	17,2 W/m ²		
Heat resistance	R	1,157 m ² KW ⁻¹		

SPECIFICATION ITEM

The acoustic insulation of the airborne noise of the vertical dividing partitions between different properties will be carried out by interposing the THERMOMAX BIT 45 + 5 panel in the cavity of the two bricks, a self-supporting thermo-acoustic panel with good acoustic and thermal performance composed of a special elastomeric membrane of 5 kg / m² coupled with a 45 mm thick polyester fiber sheet.

This product is supplied in sheets of 1.20 x 1.42 m and must be positioned taking care to perfectly match the edges and seal all the joints with the special ROTOCELLAD adhesive strip. The soundproofing power of this product is equal to Rw = 28 dB (UNI EN ISO 140/3 and UNI EN ISO 717/1) and has a thermal conductivity λ = 0.0369 W / mK.

To obtain an effective acoustic result it is necessary that this product is laid taking care to arrive with the panel perfectly against the intrados of the floor, that the desolidarizing strip "STRISCIA POLYPRILL" has been laid at the base of the masonry and that the realization of the both horizontal and vertical mortar between one brick and another is executed in such a way as not to leave empty spaces that can become "acoustic bridges".



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0035/DC/ACU/10_1

Data: 22/03/2010

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RAPPORTO DI PROVA (Test Report)

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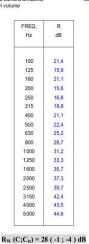
Data: 22/03/2010 Date.

RISULTATI SPERIMENTALI / TEST RESULTS

Elemento in prova / Tested element THERMOMAX BIT 45+5 Caratteristiche / Characteristics

Volume della camera ricevente Receiving room volume Volume della camera emittente Source room volume







Campione Specimen 10⁻³ m °C °C W/m² $m^2\;K\;W^{\text{-}1}$ kg/m³ THERMOMAX BIT 45,0 0,01 20,01 10,01 17,4 17,2

Legenda d = $\rho_0 =$

Spessore del provino (impostato) / Specimen thickness (imposed)

Densità del provino / Specimen density

RISULTATI SPERIMENTALI / EXPERIMENTAL RESULTS

Temperatura media lato freddo / Average temperature cold side $t_1 =$ Temperatura media lato caldo / Average temperature hot side

 $t_m = (t_1 + t_2)/2 =$ Temperatura media / Average temperature Flusso di calore lato freddo / Heat flux cold side

 $q_1 =$ Flusso di calore lato caldo / Heat flux hot side

 $q_m = \left(q_1 + q_2\right)/2 =$ Flusso di calore medio / Average heat flux $R = (t_2 - t_1)/q_m =$ Resistenza termica / Thermal resistance

Fattore di trasferimento del campione/ Transfer factor of specimen $\mathcal{I} = d/R =$

Nota / Note

Il fattore di trasferimento viene spesso definito conduttività termica apparente del provino nelle specifiche condizioni di prova. The transfer factor is often referred to elsewhere as apparent thermal conductivity of specimen in the specific test conditi

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> Paolo Mele Val reli

IL RESP. DEL CENTRO **Managing Director**

Pasqualino Cau

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EXAMPLE OF LAYING



- Brick wall made with blocks 1 sp. 12 cm, plastered on the visible side
- Render with cement mortar 2 to close any imperfections
- **THERMOMAX BIT acoustic** 3 panel 45 + 5 mm
- **ROTOCELL** band to close the 4 joints, to be used also for installation
- 5 Perforated brick sp. 8 cm
- 6 Plaster

ACCESSORIES FOR CORRECT INSTALLATION



ROTOCELL AD

for sealing the joints of the various acoustic products, in order to obtain product continuity



POLYPRILL STRIP

for the correct separation of the wall from the floor

ATTENZIONE: Questo documento non costituisce specifica. Sarà cura dell'utilizzatore stabilire se il prodotto è adatto all'impiego previsto.

Rev. 0 - 21/05/2019

Emanuele Bonifazi Responsabile Direzione Tecnica

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