

EVOSOUND HD-RUB/HF

Technical data sheet

MATERIAL

Halogen-free compound composed of a soundproofing barrier layer coupled with a flexible elastomeric foam sheet (FEF) and an external aluminium covering.

PRODUCT RANGE

Sheets in rolls with dimensions of 1 x 2 m (see the specific composition).

PRODUCT APPLICATION

Acoustic insulation of walls, floors and ceilings; enclosures for motors and air-conditioning equipment; acoustic insulation of water pipes, drains and heating & plumbing services in commercial, industrial and domestic applications, where high safety standards exist in case of fire.**

SPECIFIC COMPOSITION

Compound composed of 2 mm of elastomeric high-density barrier coupled with 10 mm rubber elastomeric foamed sheet made of FEF and aluminium covering. Available in different thicknesses.

Technical information	Reference data	Test standards
SERVICE TEMPERATURES	from -45 °C to +130 °C*	EN 14706
THERMAL CONDUCTIVITY λ (FEF)	At mean temp. of 0 °C ≤ 0,039 W/m·K At mean temp. of 40 °C ≤ 0,043 W/m·K	EN 12667
WEIGHT	Approx. 4,5 kg/m ²	ASTM D 1662
MEASUREMENT OF NOISE FROM WASTE WATER INSTALLATIONS REDUCTION OF AIR-BORNE SOUND TRANSMISSION STRUCTURE-BORNE SOUND LEVEL	Flow rate 0,5l/s 1l/s 2l/s 4l/s dB (A) 12 12 10,5 10,5 Flow rate 0,5l/s 1l/s 2l/s 4l/s dB (A) 15,5 16,6 18,4 19,6	UNI EN 14366
SOUNDPROOFING POWER INDEX R _w	27 dB (-1; -4)	EN ISO 140-3 - UNI EN ISO 717-1
HARDNESS (high-density only 2mm layer)	80 ± 10 Shore A	ASTM D 2240 / UNI EN ISO 868 / DIN 53505
TENSILE STRENGTH (high-density only 2mm layer)	> 1 N/mm ²	ASTM D 412 / DIN 53504 / UNI 6065
ELONGATION AT BREAK (high-density only 2mm layer)	> 20 %	—
FIRE PERFORMANCE - EUROCLASS	C-s2,d0	EN 13501 - 1
ANTIMICROBIAL BEHAVIOUR	EXCELLENT	—

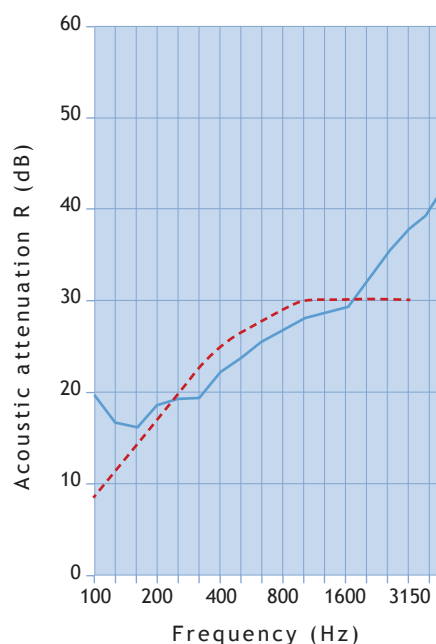
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SOUND REDUCTION INDEX

(Ref. European Standard UNI EN ISO 140-3 and 717-1)

FREQ. Hz	R dB
100	20,4
125	15,8
160	14,9
200	17,4
250	18,5
315	18,7
400	21,3
500	21,9
630	23,9
800	25,3
1000	26,7
1250	28,1
1600	28,7
2000	29,4
2500	31,0
3150	35,2
4000	38,6
5000	44,0

R_w (C;C_{tr}) = 27 (-1;-4) dB



— Tested product - - - - - Curve ISO 717-1

*Maximum temperature for adhesive versions: 90°C

**Please note that the insulating material is not designed to operate in direct contact with the conveyed fluid. EVOCELL&MOBIUS reserves the right to modify the above data without prior notice. For specific requirements, please contact our Technical Department. The latest specific documentation and certifications issued are available upon registration on our website at: www.evocellmobius.it

Storage of adhesive-backed products: not exceeding one year. It is the responsibility of the end user to verify the suitability of the product for the intended use, in relation to the specific conditions of use and installation. EVOCELL&MOBIUS reserves the right to modify the above data without prior notice.