

ISOLFON-Barrier

Technical Characteristics

High performance, flexible, mass – loaded vinyl noise barrier, offering superior acoustic transmission loss.



General Properties

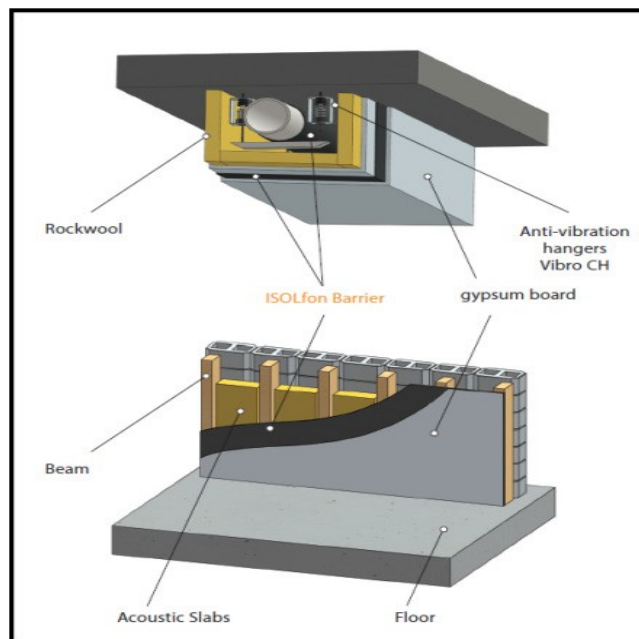
Product Name	Packing	Dimensions (Length x Width x Thickness)
ISOLFON - Barrier 3.5 R	In Rolls	5m x 100cm x 1.85mm
ISOLFON - Barrier 5 R	In Rolls	5m x 100cm x 2.65mm
ISOLFON - Barrier 10 P	Sheet	120cm x 100cm x 5mm

Mechanical Properties

Name	Mass (kg/m ²)	Thickness (mm)	Density (g/cm ³)	Resistance to traction	Elongation to Break	Hardness Shore A
ISOLFON-Barrier 3.5	3.5	1.85	1.95	> 1N/mm ²	> 100 %	85 °Shore A
Tolerance	± 5 %	± 0.5 %	± 0.3 %	--	--	± 10
Test Method	--	--	ISO 2781	--	ISO 37	ISO 868
ISOLFON-Barrier 5	5	2.65	1.95	> 1N/mm ²	> 100 %	85 °Shore A
Tolerance	± 5 %	± 0.5 %	± 0.3 %	--	--	± 10
Test Method	--	--	ISO 2781	--	ISO 37	ISO 868
ISOLFON-Barrier 10	10	5	1.95	> 1N/mm ²	> 100 %	85 °Shore A
Tolerance	± 5 %	± 0.5 %	± 0.3 %	--	--	± 10
Test Method	--	--	ISO 2781	--	ISO 37	ISO 868

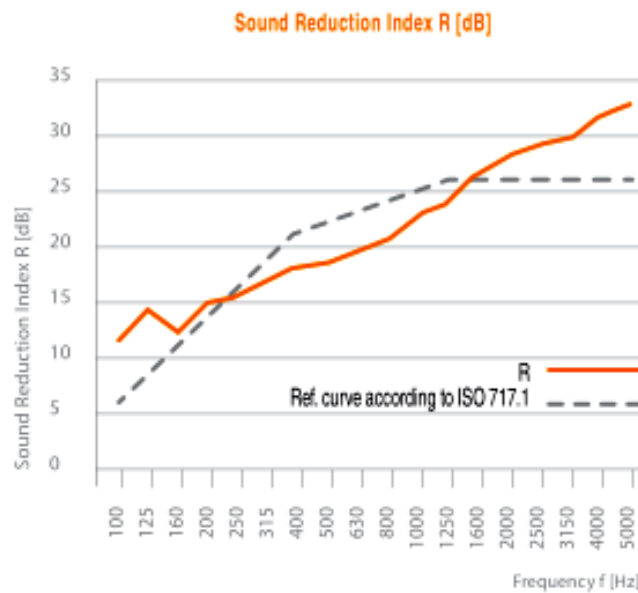
Thermal Properties

Name	Resistance Cold Shock 200/50/-25 ° C	Flammability for ISOLFON-Barrier 5 Between 2 plasterboards	Shock Resistance 200/50/-23 ° C
ISOLFON-Barrier 3.5	No break	--	No break
Test Method	--	--	--
ISOLFON-Barrier 5	No break	B S1 d0	No break
Test Method	--	UNE-EN 13501 1:2007 A1:2010	--
ISOLFON-Barrier 10	No break	--	No break
Test Method	--	--	--



Sound Insulation Index in a Drywall Construction

System	Details	Acoustic Results					
Drywall system	ISOLFON-Barrier 5 between two plasterboards in each side with Metal Stud 50 mm & infill Rockwool (50 mm 50 kg/m ³)	$R_w(C:Ctr) = 56 (-4;-11)$ dB ISO 717-2 $R(A) = 52,9$ dBA NBE CA-88					
Frequency	Hz	125	250	500	1000	2000	4000
Attenuation	dB	27	48	55	63	69	69
Brick wall cladding with Drywall system	brick wall 70 mm with two plasterboards in between ISOLFON-Barrier 5 each side with Metal Stud 50 mm & infill Rockwool (50 mm 50 kg/m ³)	$R_w = 60$ dB $R(A) = 59,5$ dBA					
Frequency	Hz	125	250	500	1000	2000	4000
Attenuation	dB	45	52	52	63	70	67



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