

## Sound absorbing Core material

### Product description:

A 100% polyester fiber insulation used for acoustical control and to provide a high impact tackable panel or wall surface in commercial, institutional and educational applications.

### Benefits:

- Light weight
- Durable
- Semi rigid substraight
- Impact resistant
- Tackable
- 100% polyester with no irritating fibers
- Free from volatile organic compounds, including formaldehyde
- Resistant to bacterial and fungal growth
- Non toxic
- Non allergenic
- It will not rot, deteriorate or change color over time
- User friendly

2014-03-11

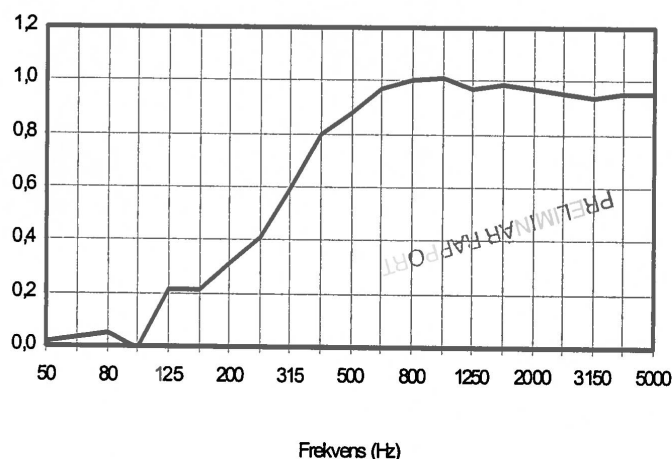
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### Mätning av ljudabsorption

Uppdrag	Mätning av ljudabsorption i ett efterklangsrums enligt SS-EN ISO 354 och utvärdering enligt SS-EN ISO 11654.		
Uppdragsgivare	Quiet Solutions/Winab Adam G.		
Objekt	Ram 50-2x14 Tjocklek: 30 mm. Panelstorlek: mm x mm.		
Mätdatum	2014-03-11		
Mätförhållanden	Bygghöjd:	70 mm.	
	Ytarea:	10,8 m <sup>2</sup> .	
	Rumsvolym:	200 m <sup>3</sup> .	
	Temperatur vid mätning på objekt/i tomrum:		20/20 °C.
	Relativ luftfuktighet vid mätning på objekt i tomrum:		72/74 %.
Resultat	Ljudabsorptionsklass C. Vägd ljudabsorptionsfaktor $\alpha_w = 0,75(MH)$ .		



### Ljudabsorptionsfaktor



Frekvens (Hz)	$\alpha_s$
50	0,02
63	0,03
80	0,05
100	-0,01
125	0,21
160	0,21
200	0,31
250	0,41
315	0,59
400	0,80
500	0,88
630	0,97
800	1,00
1000	1,01
1250	0,97
1600	0,99
2000	0,97
2500	0,95
3150	0,94
4000	0,95
5000	0,95

## ASTM E84

Standard Test Method for Surface Burning Characteristics of Building Materials

## NRC- rating

Noise Reduction Coefficient is rating how absorptive a particular material is - the average of the mid-frequency sound absorption coefficients (250, 500, 1000 and 2000 Hertz) rounded to the nearest 5%.



Thickness	Color	ASTM E84	NRC
1.4 cm	White	Class A	0.5
2.5 cm	White	Class A	0.6
2.5 cm	White	Class A	0.75
2.5 cm	White	Class A	0.75
5 cm	White	Class A	0.85
5 cm	White	Class A	0.90

## Composition and materials:

Manufactured from 100% polyester fibres thermo-bonded and treated with a flame retardant material.

65% recycled plastic drink bottles.

100% recyclable or alternatively it can be safely destroyed by incineration.

## Technical data

Applicable standards:

BOCA, ICBO, SBCCI, CABO, ICC

## Fire Resistance:

ASTM E84, UBC 8-1 ANSI/NFPA 101

Maximum Flame Spread Index

15mm - 15

25mm - 10

Maximum Smoke Developed Index

15mm - 200

25mm - 180

## Physical/ Chemical Properties:

Acoustical Performance

ASTM C423 (see table)

Thermal Performance ASTM C518

15mm – 2.10

25mm – 3.59

Water Vapor Sorption

<0.4% by weight

Weather Resistance

No change in appearance.

### **Installation**

Multi Purpose Insulation is applied directly to plaster board, concrete, CMU, or other ASTM E 84, Class 1 or A material .

Our core product can be cut and installed using standard tools.

Our core material can also be used as a compound of pre-made acoustical and tackable panels, modular panel systems, as well as ceiling tiles, baffles, clouds, and diffusers.