

# **Fibrolite Slabs**

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CEMENTED WOOD WOOL PANELS

# Composition

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In its final form the Fibrolite Slab consists of 60 % wood wool and 39.8% Portland cement with the addition of natural mineralizer - low concentration of sodium silicate



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# Fibrolite Slabs

- Cemented wood wool panels
- Panels that combine fire resistance with superior acoustic and thermal performance
- Modern, nature-friendly product of growing demand worldwide

## Applications

Decorative solutions

Sound absorption and insulation

Building construction

Thermal insulation



# General characteristics

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**Ecology** - the material is produced in a nature-friendly way

**Aesthetics** - a wide range of colours and textures

**Health** - provides a favourable environment for people

**Acoustics** - excellent sound insulation characteristics

**Convenience** - easy to transport and assemble

**Insulation** - excellent insulation properties

**Safety** - high fire safety indicators



# Decorative solutions

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Sizes: 2400; 1200; 600 x 600 mm

Thickness: 25, 14 mm

Wood wool: 1,0 mm; 1,5 mm ; 2,0mm

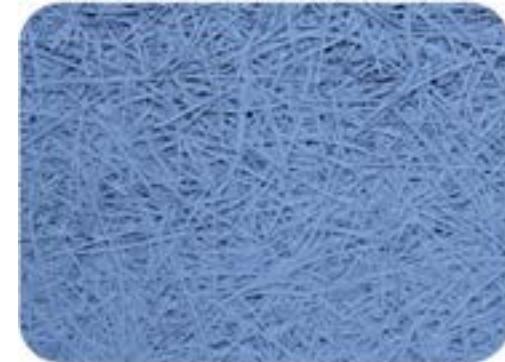
Cements: White or Grey

Density: 450 kg/m<sup>3</sup>; 600 kg/m<sup>3</sup>

Sound absorption: (aw) 0,75 - 1,00

Colour: natural; white painted; from RAL catalogue

Profiles: different profiles available



# Decorative solutions - examples

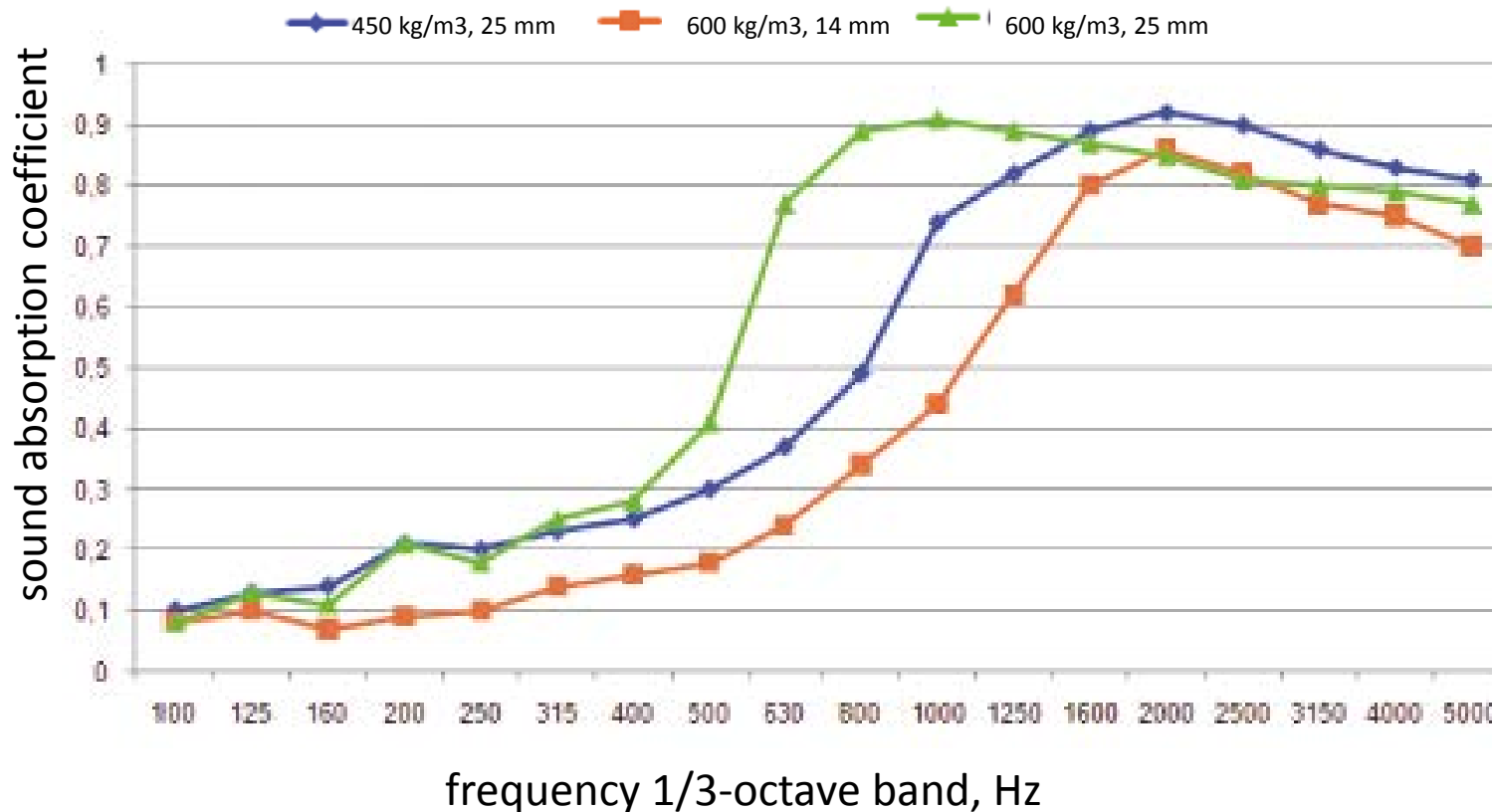
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Ceiling and wall solutions  
Sound studios  
Schools and sports facilities  
Offices and public premises  
Shooting range and swimming pools  
Underground parking places and garage  
Noise barrier walls  
Different interior solutions and objects



# Acoustic characteristics

Fibrolite slabs are natural materials suitable for sound insulation, sound absorption and thermal insulation of premises and building structures. They provide a high level of sound absorption, especially at high sound frequencies, for example, loud piercing noises, which are the most common types of sound waves in nature.



Medium sound absorption coefficient  
NRC = 0.7.

# Noise reduction



Fibrolite plates are the main filters of noise reduction which are established along the railroads and highways

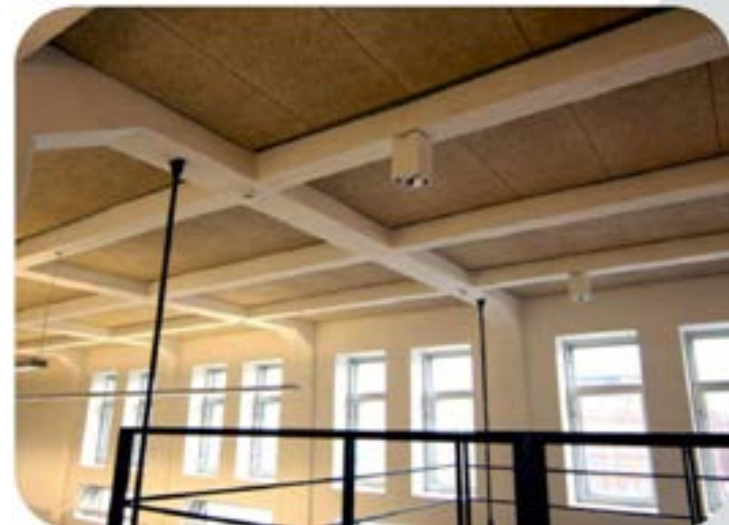




# Decorative solutions - examples

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Thanks to a wide range of unique characteristics fibrolite slabs can be applied in premises which require high standards of acoustic comfort: theatres, studios, sports centers, car parks, etc.

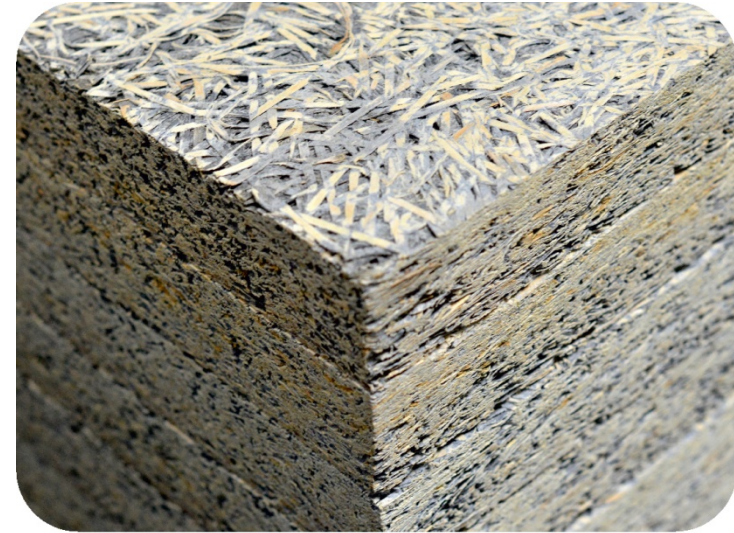


We paint and cut specially for you. Bright designs and custom sizes



# Building construction

- Sizes: 2800 x 600 mm ; 3000 x 600 mm
- Thicknesses: 10; 14; 25 mm
- Wood wool: 2,0; 3,0 mm
- Cement: Grey
- Thermal conductivity: (  $\lambda$  ) 0,068
- Specific heat: (  $c$  ) 2100
- Reaction to fire: B-s1, d0
- Water vapour resistance: (  $\mu$  ) 2 - 5



# Building construction - examples

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- Frame houses
- Reconstruction of houses
- Flooring and roofing constructions
- Door and window frames
- Walls and partitions
- Coverings
- Permanent shuttering
- Basements





# Thank you for your attention!

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