

Ecological wood wool cement boards

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Krupinit® Final



- Harmless to human health 
- Convenient for organic constructions 
- Resistant to biological pests 
- Heat insulating 
- Acoustically insulating 
- Fireproof 
- Natural material 
- Recyclable material 

Norm: WW-EN 13168

Boards: Krupinit F

Abbreviation: KF



Use



Decorative tiles - walls, partitions, roofs, ceilings



Acoustic tiles - community rooms, halls, studios, offices



Decorations - paintings, mosaics, shades, decorations



Fire protection tiles - social rooms, industrial buildings

Advantages

- Comfortable life without harmful chemicals
- Low noise and energy efficient
- Very stubborn
- Fireproof
- Environmentally friendly



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Characteristic

Krupinit is a structural, thermal, sound and fire protection panel made of wood wool, which is connected by Portland cement. It is the oldest industrially produced insulation panel known for more than 75 years as a Heraklith plate. Excellent time-tested properties are used in various applications today.

Ornamental tiles

Krupinit F plates are characterized by a finer texture of wood wool and a color scheme. They are aesthetically decorating their rooms with their surfaces. They are used as lining of interior walls, partitions, ceilings, prefabricated or masonry structures.

Acoustic tiles

Sports, social, industrial and other areas where the acoustics need to be improved can be modified by covering the ceilings, walls and other structures with unbound **Krupinit F** panels. The open structure of these plates absorbs sound and the irregular surface of the plates reflects the diffused sound waves, so no acoustic echo. Correctly stacked designs can achieve a noise-to-noise ratio up to $R_w = 54dB$.

Decorative objects

Krupinit F can also be used on a variety of decorative items such as shades, chandeliers, paintings, mosaics, puzzles ... There are no restrictions to make a fantasy cut.

Fire and other uses

Krupinit F-boards as a basic variant **Krupinit** also have other characteristics that should not be forgotten: fire resistance, strength, heat and sound insulation, durability and many others, which makes this plate ideal for use in building construction as well as other furniture.



Assembly

Krupinit F plates are particularly suitable for their excellent properties and easy assembly. They are fastened with screws to a wooden grate or to a galvanized suspension system. The installation can also be carried out by experienced masters who can also assemble with our instructions.

Technical parameters of the plates

Kind	Thickness (mm)	Weight (kg)	Density (kg/m ³)	Thermal conductivity λ (W/mK)	Thermal resistance R(m ² K/W)	Diffuse resistance μ (-)	Sound absorption a_w (-)
K 15	15	7,5	480	0,062	0,24	4	100Hz - 0,08
K 20	20	8,5	415	0,062	0,32	4	200Hz - 0,15
K 25	25	10,5	410	0,063	0,30	5	400Hz - 0,43
K 30	30	12,5	410	0,062	0,48	5	800Hz - 0,71



Advantages

- a pleasant environment with good thermal and acoustic insulation
- a perfect permeability of water vapor ($\mu = 4$ to 7)
- simple work with common tools
- a perfect adhesion
- a simple application of panels
- the long life with the resistance to:
 - the fire (B - s l, s0)
 - the ligniperdous insect (also termites)
 - rodents and birds
 - dry mushroom and mildew

Certificates

Declaration of conformity of products
STN EN 13168 and STN EN 13172



Notes

R_w - is the airborne sound index calculated according to STN EN ISO 717-1. Evaluates the sound insulation performance of partitions

a_w - the sound absorption factor determines the ratio of the absorbed sound power to the incident on the material.

Classification of the fire behavior: B - s l, d 0 (hardly flammable - with minimal smoke, no burning droplets)

μ - is the diffusion resistance factor, is a dimensionless number according to STN EN 12086. It measures the diffusion resistance of the material against water vapor

δ - Diffusion Conductivity (mg / m.Pa.Pa) according to STN EN 12086