

FIBERKENAF PAN

Thermal and acoustic insulation panel made of kenaf and hemp natural fibre

Natural thermal-acoustic insulation panel, made of kenaf fibre, coming directly from cultivation, and hemp, interlaced and three dimensionally thermally fixed, to which it is added a minimum part of polyester fibres as reinforcement. Non-toxic, hypoallergenic, produced without the addition of any chemical component and / or adhesives. Easy to re-use and completely recyclable when dismantled.

BENEFITS

- Easy and quick application
- Excellent thermal and acoustic insulation
- Sound-absorbing
- Breathable
- Natural and eco-friendly product
- Rotproof
- Resistant against rodents
- No need for moth-repellent treatment
- Non-toxic, hypoallergenic, made without any addition of chemicals and adhesives
- Resistant to natural chemical and physical agents
- Ageing resistant and it does not need maintenance

APPLICATION FIELDS

Product suitable for the thermal and acoustic insulation of:

- cavity walls;
- external walls as insulation from inside;
- flat or pitched roofs if not passable;
- false ceiling;
- sound-proofing of partition walls;
- elimination of echoes and reverberations.

It replaces mineral wool or polystyrene panels. *FiberKenaf Pan* is ideal both for new construction and for refurbishment. Moreover *FiberKenaf Pan* is acknowledged by the ICEA brand as suitable material for green building.

Its use is suitable wherever the use of a non-toxic and non dusty material is essential.

The panels are suitable only for the insulation of vertical walls.

YIELD

1 panel 0,60 x 1,20 m = 0,72 m².

COLOUR

Beige.

PACKAGING

Panels 60 x 120 cm
Thickness 30 - 40 - 50 - 60 mm.

STORAGE

Store the product in well ventilated areas, away from sunlight, water and ice, at temperatures between +5°C and +35°C.

SUPPORT PREPARATION

- The support must be completely hardened, dry and resistant.
- The surface must be thoroughly clean, well consolidated, without debris or detaching parts.
- The support temperature must be between +5°C and +35°C.

APPLICATION

FiberKenaf Pan is easy and quick to apply, with no special application requirements compared to the other panels.

1. Cut the panels with scissors or cutter depending on your needs.
2. Fix the panels to the support with glue or plugs.
3. Panels with density equal to 50 kg/m³ can stand without the need of glue or plug.

SUGGESTIONS

- It does not require any particular attention while handling.
- Its use is clean without the development of dust.
- Easy to re-use and completely recyclable when dismantled.

SAFETY

For the handling, see product safety data sheet.



For application video, product page, safety data sheet and other information.

Thermal and acoustic insulation - Panels

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.

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Technical Data

Features		Units
Yield	1 panel = 0,72	m ²
Aspect	Panel	-
Colour	Beige	-
Application thickness	30 – 40 – 50 - 60	mm
Density	30 or 50	kg/m ³
Application temperature	+5 /+35	°C
Working temperature	-15 /+40	°C
Packaging	Panels 60 x 120 cm Thickness 30-40-50-60mm	mm - m

Final performances		Units	Regulations	Results
Thermal conductivity at 20°C	$\lambda = 0,039$	W/mK	UNi EN 12667	Excellent insulation
Specific heat	2050	J/kg °C	UNI EN 12667	-
Sound absorption	$\alpha = 60\%$	-	UNI EN 20354	Sound-absorbing
Sound proofing of a wall made of 1cm plaster + 8cm perforated brick + 1cm plaster + 3cm Fiberkenaf Pan + 2,5cm plasterboard	Rw = 52,0	dB	UNI EN ISO 140/3 UNI EN ISO 717/1	Sound-proofing
Fire reaction	Euroclass F	-	UNI 9177	-
Traction resistance (perpendicular to faces)	2,5	KPa	UNI EN 1607	-
Traction resistance (parallel to faces)	2,1	KPa	UNI EN 1608	-
Compression resistance to 10% of relative deformation	2,02	KPa	UNI EN 826	-
Dimensional stability: - cold (-25°C)				
Length:	-0,26%	-	UNI EN 1604	-
Width:	-0,28%			
Thickness:	-0,28%			
Dimensional stability: - hot (70°C)				
Length:	0,58%	-	UNI EN 1604	-
Width:	0,57%			
Thickness:	0,56%			
Water absorption	0,110	kg/m ³	UNI EN 1609 – A Method	-
Water steam transmission: - Vapour permeability (δ)	$85,5 \cdot 10^{-12}$	Kg/(m s Pa)	UNI EN 12086	-
- Resistance to vapour diffusion (μ)	2,30	-		
Dynamic rigidity	4,8	MN/m ³	UNi EN 29052 - 1	-

* The above data, even if carried out according to regulated tests are indicative and they may be change when specific site conditions varv.

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