



CANAFIBER



DESCRIPTION

CANAFIBER is a high quality insulating material made with industrial hemp fibers. A natural and sustainable product with exceptional insulating properties. The unique characteristics of hemp fiber in terms of thermal insulation, humidity regulation and noise reduction contribute in a distinctive way to a healthy and sustainable living environment: the natural comfort.

Composition	90% industrial hemp fiber 10% biocomposite fibers	tw
Density	35,5 kg/m ³	EN 1602
Thermal Conductivity	0,040 W/mK	EN 12 667
Reaction to fire	D-s1, d0	EN 13 501-1
Flame retardant (<1%)	ammonium salt	
Specific heat capacity	1800 J/kgK	EN ISO 10456

Sound absorption coefficient (aw)	0/95 (sp. 14cm)	EN ISO 354
Water vapour resistance factor (μ)	< 1,5	EN 12 086
Airflow resistance	≥ 2,0 kPa.s/m ²	EN 29 053
Dimensional tolerance	length ± 2%	EN 822
	width ± 1,5%	EN 822
	thickness ± 5% of max 5 mm	EN 823
Embodied energy	50-80 kWh/m ³	

USE AND APPLICATION

CANAFIBER is the ideal product for thermo-acoustic insulation of roofs, walls and floors for both new buildings and renovations. CANAFIBER is the natural alternative to insulating materials of mineral and synthetic origin. It is compatible with any type of structure, from traditional concrete systems to more innovative ones such as steel or wood. The unique qualities of CANAFIBER are enhanced when used in combination with breathable and vapour permeable solutions such as Natural Beton® and Blocco Ambiente® of hemp and lime.

Thickness (mm)	Rd	Size (mm)	Panels / package	m ² / package	m ³ / package	Package / Pallet	m ² / Pallet	m ³ / Pallet
40	1	1200x600	15	10,8	0,432	8	86,4	3,456
60	1,5	1200x600	10	7,2	0,432	8	57,6	3,456
80	2	1200x600	5	3,6	0,288	12	43,2	3,456
100	2,5	1200x600	6	4,32	0,432	8	34,56	3,456
120	3	1200x600	5	3,6	0,432	8	28,8	3,456
140	3,5	1200x600	3	2,16	0,302	12	25,92	3,629
160	4	1200x600	4	2,88	0,461	8	23,04	3,686

INDUSTRIAL HEMP FIBER

- Unique thermal phase shift thanks to the high capacity to accumulate energy
- Endless life cycle
- It absorbs up to 20% of its weight in water vapour and self-regulates extraction and release
- Free of protein substances and unappetising to insects and rodents
- Energy consumption reduced by 90% compared to alternative synthetic and mineral insulation products
- It sequesters CO₂ during growth and contributes to the fight against climate change
- An excellent example of a circular economy

The annual cycle of industrial hemp fiber makes it a renewable non-toxic resource of high quality. The insulating materials in hemp fiber enjoy very high durability. They represent the ideal solution to create healthy and comfortable living spaces with an environmental impact reduced to a minimum.

DID YOU KNOW THAT ...

- One hectare of agricultural land planted with hemp produces 9 tons of biomass per year which means, four times the production of one hectare of forest
- One hectare of hemp fiber sequester 15 tons of CO₂ every time it is harvested
- The cultivation of industrial hemp doesn't need pesticides and enriches the soil

WHY CANAFIBER?

CANAFIBER is able to absorb noise, regulate humidity, prevent the appearance of condensation and mould and reduce internal temperature fluctuations. The panels are simple and pleasant to use and totally free of dangerous substances that can cause irritation of the skin and respiratory tract.