TECHNICAL DATA SHEET

Profib® - Mat

Industrial hemp fiber thermal insulation batt

DESCRIPTION

Thermal and acoustic insulation batt made of industrial hemp fibers.

USE

Preformed and flexible natural fiber batt designed to be inserted by friction between the wooden or steel frames of a construction.

DIMENSIONS

Density	35 kg/m³
Thickness (in.)	2" 3,5" 5,5" 7,5" | R8 R13 R20 R28
Widths	16" 24" (suitable for wood or steel frame)
Lenght	48"

MAIN CHARACTERISTICS

High Performance

- Excellent thermal resistance value
  R 3,7 per inch of thickness (λ: 0,0389 W/m.K)
- Humidity control and thermal phase shift
- Exceptional stability after conditoning
- High performance acoustic insulation

Ease of installation

- Mechanical strenght without saging or settling
- Pre-cut to standard sizes
- Installation by friction/pressure
- Non-abrasive, non-toxic, non-irritant

Ecological and sustainable

- Global warming potential
  0.68 kg eq.CO^2 (m^2 x 0,039 m thickness - 1,5")
- 100% natural vegetable fibers
  health and indoor air quality
- Low gray energy production: 30 kWh/m^3
- bio-based material
- Environmental Product Declaration (EPD) available

PERFORMANCE

ASTM C167	Standard test method for thickness and density of thermal foam insulation — ✓Successful
ASTM C303	Standard test method for the dimensions and density of block and perforated panel thermal insulation. — ✓Successful
ASTM C518	Standard test method for steady-state thermal transmission properties using the heat flow meter apparatus — R 3,7 Value
ASTM C1338	Standard test method for determining the resistance to fungi of insulation materials and coatings. — ✓Successful
CAN/ULC S703 6.3.11	Separation of chemical products from the insulation — 0,01%
ASTM E96	Standard test method for the water vapor transmission of materials — perm 9.58
CAN/ULC-S102	Standard test method for the surface burning characteristics of building materials and assemblies — FSI 255/ SDI 30
CAN/ULC-S774	Standard test method for the determination of volatile organic compound (VOC) emissions. — ✓Successful
CAN/ULC-S703 6.3.2	Corrosivity: Aluminum, Copper, Steel. — ✓Successful
ASTM S703 6.3.8	Water vapor absorption — 12%
ASTM S703 6.3.12	Resistance to slow combustion of the insulation — ✓Successful

The specified performance tests mentioned above are based on the criteria outlined in the Technical Guide (CCMC) to meet the requirements of the National Building Code of Canada 2020.

Environmental technical datasheet (ETD) available.
Safety data sheet (SDS) available.

DELIVERY & STORAGE

Product delivered in its original packaging.
Transport and store in a dry, enclosed place.

INSTALLATION

Insulation will need to be installed in accordance with the instructions.
Manufacturer's manual and installation guide.

SAFETY

The insulation does not require specific protection, but it is always recommended for installation personnel to wear a dust mask, protective goggles, and gloves

RESPONSIBILITY

The information described in this sheet is intended to help you select the right insulation blanket for your application. It is the user's responsibility to determine if the product meets their needs. In the event of a justified complaint, only the product is subject to replacement.

Need more information? Contact us:

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