

HOMATHERM woodFlex® Protect

Flexible woodfibre insulation batt suitable for all types of timber construction

GENERAL

HOMATHERM woodFlex® Protect batts are medium-density semi-rigid insulation slabs made from wood chippings and 7 - 10% polyolefin fibres. woodFlex® batts are free from Borax and Boric Acid.

The cellulose fibres enable the insulation to absorb up to **17% moisture** without losing on thermal performance. And since moisture is absorbed by the insulation, not the timbers, structural timbers **without preservative treatment** can be used.

The polyolefin fibres enable the slabs to be **flexible** in all directions.

The density of the batts (typically 50 kg/m³) ensures superior **acoustic** performance relative to mineral wool insulation materials whilst the excellent specific heat capacity of the batts ensures that woodFlex 040 batts not only insulate during the winter, but also prevent **summer overheating** (2.4 times better than a mineral wool of equivalent density).

Application

- Suitable for floors, walls, and roof constructions

ADVANTAGES

Composition & Manufacture

- Contains over 90% by-products
- No toxins or toxic emissions during manufacture

Installation & Disposal

- Easy to handle, cut and install
- No risk of settlement over time
- Flexible in all directions
- No emissions or health risks
- Avoids the use of treated (toxic) timber
- Durable / Low maintenance
- Reusable / recyclable

Performance

- Excellent thermal performance in Winter
- Excellent thermal performance in Summer
- Excellent acoustic performance
- High vapour permeability
- Hygroscopic (absorbs & releases moisture)
- Absorbs harmful VOC's and toxins
- Vermin and fungus resistant
- Electrically neutral
- Non-radioactive
- Protects the structure from spread of flame
- Free from toxins and allergens



PRODUCT DATA

Composition

Raw materials	Wood fibres
Binder	Polyolefin fibres
Fire protecting agent	Ammonium polyphosphate

Dimensions & Packaging

Batt size	1250 x 570 mm
Batt thickness	30 / 40 / 60 / 80 / 100 / 120 / 140 / 160 / 180 / 200 mm
Coverage per pack	7.13 / 5.7 / 3.56 / 2.85 / 2.14 / 2.14 / 1.43 / 1.43 / 1.43 / 1.43 m ²
Coverage per pallet	99.75 / 79.8 / 49.88 / 39.9 / 29.93 / 25.65 / 22.8 / 19.95 / 17.1 / 14.25 m ²

Technical data

Density, ρ	45 - 55 kg/m ³
Thermal conductivity, λ_D	0.038 W/m.K
Specific heat capacity, c	2100 J/Kg.K
Diffusion resistance, μ	1
Acoustic dynamic rigidity s'	4 - 8 MN/m ³
Tensile strength	6 kN/m ²
Tear strength	3 kN/m ²
Fire rating	Class E

Standards

- BS-EN-13171-T3-T2.5-AF5