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Perimeter Plus™ Loft and Blown-in-Blanket® System

Description

Knauf Perimeter Plus glass mineral wool Blowing Insulation is an unbonded, virgin glass blowing insulation designed with optimal thermal properties and excellent coverage and blowing characteristics.

| Density (kg/m ³) | Angle range (°) | Thermal conductivity (W/mK) | Application |
|---------------------------------|--------------------|--------------------------------|---|
| 12.0 | 0 - 15 | 0.042 | Open Loft |
| 19.0 | 0 - 25 | 0.038 | Enclosed rafter spaces |
| 23.0 | 0 - 90 | 0.036 | Enclosed rafter spaces and timber frame stud walls |
| 26.0 | 0 - 90 | 0.034 | |
| 30.0 | 0 - 90 | 0.033 | |

Thermal resistance values for 26kg/m³

| Thickness (mm) | Thermal resistance (m ² K/W) | Maximum coverage per bag (m ²) contents of this bag should not cover more than: |
|-------------------|--|--|
| 90 | 2.60 | 6.20 |
| 140 | 4.10 | 3.98 |
| 200 | 5.85 | 2.79 |
| 300 | 8.80 | 1.86 |

All dimensions are nominal
Bag net weight - Nominal 14.5kg

Performance

Thermal

Perimeter Plus has a range of thermal conductivities between 0.033 - 0.042W/mK depending on the density required in the application.

Fire

Perimeter Plus is classified as Euroclass A1 to EN ISO 13501-1

Acoustic performance

Perimeter Plus has excellent sound absorption characteristics.

Benefits

- Ultra high energy saving
- Made using recycled glass bottles
- Suitable for new and existing buildings
- Quick and clean to install
- Installed from inside

Perimeter Plus

Application

Blow-in-Blanket® System (BIBS) is a patented process consisting of glass mineral wool loose fill blown in behind a special netting material. Perimeter Plus Blowing Insulation is used in both new and existing structures as a Blow-In-Blanket System for closed cavity applications in which ventilation is not required.

Features and benefits

Excellent thermal properties, fills all gaps and voids, creating a thermal barrier against outside air thereby improving temperature control.

Environmental

Perimeter Plus conserves energy and therefore assists in reducing demand for fuels for the heating and air-conditioning of buildings. As a result, they reduce the emissions of the major greenhouse gas, CO₂. The energy and CO₂ emissions saved by the products in use vastly outweigh those generated in their manufacture.

Perimeter Plus's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Thermal performance

The stated thermal conductivity is provided by installing in accordance with the manufacturer's instructions.

Vapour resistance – resistivity

Perimeter Plus offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00 MN.s/g.m.

Noise reduction

Improves sound insulation performance of construction element into which it is installed.

Non-corrosive

Will not accelerate the corrosion of aluminum, steel or copper.

Resists microbial growth

Does not promote the growth of fungi or bacteria and will not rot or sustain vermin, rodents or insects.

Poly bag packaging

Excellent protection from on site dust and moisture, unitised packaging eases movement in the warehouse and reduces storage space.

Speed of installation

Saves installation time by minimising the steps needed to fully insulate tight corners and hard to reach areas



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