

A lightweight expanded clay aggregate insulation fill material

Leca® insulation fill




Uses

- Extensions
- Conservatories
- Garages
- Refurbishment
- Driveways
- Patios

About this product

Leca® insulation fill is an energy-saving lightweight insulation fill for use on most floors prior to the laying of a concrete slab.

Features and benefits

- ▲ Saves time and money
- ▲ Supplied in 50 litre (15 kg) bags making it easy to use and transport
- ▲ Thermal insulation
- ▲ Can be laid in the bag
- ▲ Safe to handle and chemically neutral
- ▲ Made from natural raw materials

Technical data

Complies with Part L of the Building Regulations

Thermal conductivity	0.11 W/mK
Fire resistance	Class 1 – Non-combustible

Typical sieve grading

Sieve aperture	8mm	10mm	12.5mm	16mm	20mm	22.4mm
Maximum weight passing	10%	35%	75%	95%	100%	100%
Average weight passing	5%	20%	–	85%	–	–
Minimum weight passing	–	3%	35%	70%	96%	–

Material properties

	Dry bulk density (kg/m³)	Particle density (kg/m³)	Crush resistance (N/mm²)	Moisture (%)
Maximum	300	–	–	–
Average	260	450	–	10.0
Minimum	220	–	0.7	–

Thermal properties

U-Value (W/m²k)	Nominal depth (mm)	Quantity (no. of bags)
0.45	150	3 bags per m²
0.22	300	6 bags per m²

U-values are given for guidance only. Where critical, please refer to **Weber's** Technical Department on 01525 722110.

Application



Step 1 Use loose material to level up the sub floor and then lay the bags on top.



Step 2 Continue to lay bags side by side to cover the floor area. If a second layer is needed, lay in a brick bond pattern.



Step 3 Once at the required depth, use loose material to fill the holes between bags and level off.



Step 4 Lay a 1200 gauge damp proof membrane over the insulation fill. The insulated floor is ready to receive the concrete slab.

Packaging

Leca® insulation fill is supplied in 50 litre (15kg) bags stacked 21 per pallet.

Coverage

50 litres/m²/50mm thickness.

Storage and shelf life

Leca® insulation fill does not degrade.

Health and safety

Leca® insulation fill weighs a nominal 15kg, well within the H&SE recommendations for a single-man lift.

Leca® insulation fill is chemically neutral and does not contain any environmentally harmful constituents. It is safe to handle and does not need any special protective clothing or special requirements for disposal.

Technical services

Weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline

Tel: 01525 722100
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Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

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