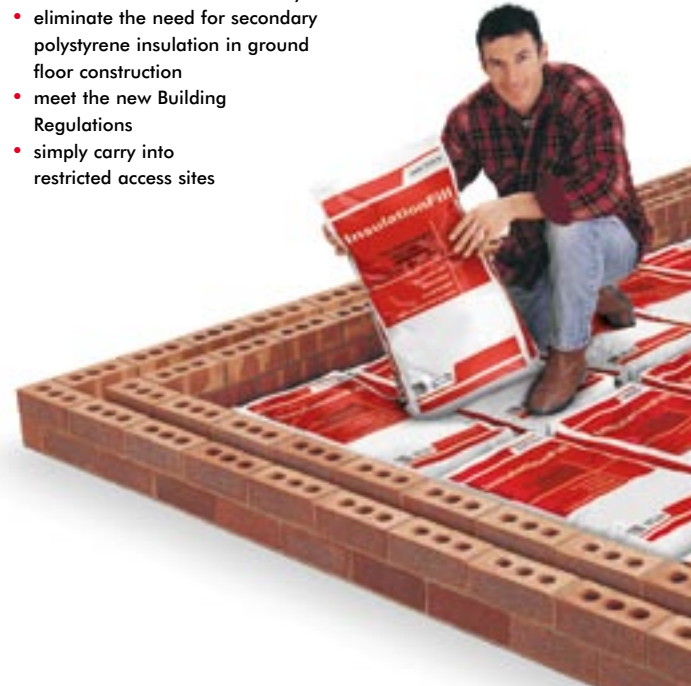


Leca Insulation Fill ENABLES YOU TO:

- save hours
- eliminate the cost of machinery hire
- eliminate the need for secondary polystyrene insulation in ground floor construction
- meet the new Building Regulations
- simply carry into restricted access sites



Leca®

INSULATION FILL

**FAST, ECONOMICAL,
INSULATING FILL FOR NEW
BUILD APPLICATIONS**

One Product That Offers Two Solutions

Leca Insulation Fill is the fastest and easiest method of preparing an insulated oversite for a concrete slab with added benefits:

- achieves the latest U-values
- minimal labour required
- fills oversites quickly – discharge up to 50m³ per hour through blowing vehicles
- two man operation
- no heavy site machinery required
- restricted access or difficult site conditions overcome with ease
- no sand blinding required to level oversite
- depths of up to 3m
- ideal for use on gas contaminated land

SAVE TIME AND MONEY INSULATING FLOORS

IT'S IN THE BAG



IT'S THE ENERGY-SAVING WAY TO CREATE FOUNDATIONS FOR RENOVATION AND NEW BUILD

Leca Insulation Fill is lightweight insulation that cuts foundation time by hours. It is available in 50 litre bags, making insulated foundations which comply with the new Part L of the Building Regulations a simple, one man process. What is really clever about Leca Insulation Fill in bags is that it is stored in the bag, collected and transported in the bag, laid in the site in the bag and covered in concrete – still in the bag.

It will save hours of time, hard labour and cost when creating foundations for extensions, conservatories, garages, driveways and patios. The 50 litre bags weigh just 15kg and are easily portable. There's no mess, no need for heavy machinery, no heavy lifting and no waste.

- Step 1 Lay loose fill to level up the site and lay the bags of Leca Insulation Fill on top
- Step 2 Continue laying the bags side by side to cover the floor area
- Step 3 Fill in any spaces with more loose fill
- Step 4 Lay a 1200 gauge damp proof membrane to complete the oversite. Then lay the concrete or Weber levelling compound.



ELIMINATE HEALTH AND SAFETY PROBLEMS

Leca Insulation Fill bags weigh 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.



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Leca®

INSULATION FILL



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MEET THE BUILDING REGULATIONS FOR THERMAL INSULATION

The table is for guidance only. Where U-value is critical, please refer to Weber's technical department on 01525 722110. The U-value has been calculated in accordance with BS EN ISO 13370:1998 'Thermal Performance of Buildings. Heat Transfer via the ground. Calculation methods' or can be calculated using CIBSE Guide: Part A3:1999 'Thermal Properties of Building Structures'.

U-value (W/m ² K)	Nominal Depth (mm)	Quantity (No. of bags)
0.22	300	6 bags per m ²
0.45	150	3 bags per m ²



INSULATION FILL



THE COST AND TIME SAVING SOLUTION FOR REFURBISHMENT

When used as part of the renovation process, upgrading an original solid concrete slab base to comply with the latest Building Regulations, excavating the original slab and replacing it with a combination of hardcore, blinding sand, polystyrene insulation and a concrete slab results in a number of significant drawbacks:

1. Each house (40m² base) requires approx. 24 tonnes of conventional hardcore

- at least one heavy lorry journey per house
- damage to roads, pavements and underground services
- traffic, noise, potential danger to residents

2. Hardcore must be unloaded outside

- creates mess and can attract vandals
- requires shovelling into barrows and barrowing into the properties
- requires tipping, spreading and compaction with a whacker plate
- requires tipping, spreading and compaction of blinding sand
- requires reloading of excess & cleaning up of exterior

3. Polystyrene is delivered in large sheets

- requires cutting
- blows around in the wind
- can be damaged when walked on

1 HOUSE, 3 LABOURERS, 2 WHOLE DAYS

Using a combination of bagged Leca Insulation Fill and a concrete slab or floor screed eliminates or significantly reduces these problems

1. Each house (40m² base) requires approximately 130 bags of Leca Insulation Fill – less than 2 tonnes

- smaller truck to deliver
- less noise, less danger to residents, less damage

2. Bags are simple to unload (only 15kg)

- single man lift
- carry straight into house
- lay on floor
- no compaction required
- no wastage
- no mess

1 HOUSE, 2 LABOURERS, 1 HOUR!



1. Dig out old floor



2. Carry the bags into the house (only 15kg)



3. Use a small amount of material to level up the site



4. Lay the bags on the ground



5. Use a little loose material to fill any voids and level the surface



6. Lay a 1200 gauge damp proof membrane



7. Pour the concrete or Weber levelling compound

Leca Insulation Fill saves around 40 man hours per house during installation of insulated solid floors. It cuts turnaround times, minimises disruption for residents and enables two labourers to prepare a 40m² base in just one hour, compared to two days for three labourers to do the same job using hardcore and polystyrene insulation.

It also virtually eliminates the need for heavy lorry journeys during works.

CONVENTIONAL METHODS ARE BLOWN AWAY BY Leca Insulation Fill

For deeper foundations, the Leca Insulation Fill can be blown directly from a vehicle into the void from a distance of up to 50 metres. Once the old floor has been excavated, the blowing vehicle pulls up outside the building and discharges the material at around 50m³ per hour.

It is certified for depths up to 3 metres, and up to 400mm without compaction required.

Once the Leca Insulation Fill is blown in, compacted if necessary and raked level, simply lay the 1200 gauge damp proof membrane and the floor is ready for the final concrete slab or Weber levelling compound.

