

# Insulation

We carry a comprehensive range of floor, cavity wall and roof insulation products, which is constantly monitored to ensure they comply with current legislation and meet our customers' requirements.



**Insulation**

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**Foil Tape**

**Polystyrene Sheets**

**Rockwool**

**Loft Roll**

## Celotex

### Celotex GA4000

is suitable for a variety of applications, including roof, wall and floor insulation. This multipurpose PIR insulation board has long been at the heart of Celotex product range and achieves an A+ rating when compared to the BRE Green Guide.

Offering enhanced thermal performance in cavity air spaces such as timber frame walls and pitched roof applications, Celotex GA4000 is a high performance PIR insulation board that:

- Offers high performance insulation with low emissivity foil facings offering enhanced thermal performance within cavity air spaces
- Is certified under BBA certificate number 95/3197 and 09/4667
- Is suitable for a number of applications including roof, wall and floor systems
- Is available as a BIM object
- Has low global warming potential (GWP) and zero ozone depletion potential (ODP)
- Future proofs the energy performance of new and existing buildings

### Celotex TB4000

is available in a range of thicknesses unrivalled by any other PIR manufacturer. Suitable for a range of roof, wall and floor applications, Celotex TB4000 offers a high performance PIR insulation board that:

- Is suitable for use in a number of applications including roof, wall and floor systems
- Is specifically designed to eliminate thermal bridging
- Includes low emissivity foil facings offering enhanced thermal performance within cavity air spaces
- Achieves an A+ rating when compared to the BRE Green Guide
- Is certified under BBA certificate number 95/3197 and 09/4667
- Is available as a BIM object
- Has zero ozone depletion potential (zero ODP) and a low global warming impact (GWP)
- Future proofs the energy performance of new and existing buildings

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## Rockwool

### Rockwool Cavity

ROCKWOOL Cavity insulation is a rigid full-fill insulation solution for masonry cavity wall construction, suitable for use in new builds or extensions. Lightweight and easy to handle, the batts are simple to install and provide a close fit against brick and blockwork, adapting to imperfections in the cavity wall. ROCKWOOL Cavity wall insulation is available in a range of thicknesses.

#### Benefits

- BBA certified for all exposure zones
- Outstanding thermal and fire insulation
- Does not require TCBS
- Prevents water transmission from the outer to inner leaf
- Non-combustible (Euroclass A1)
- Superior fit against blockwork
- No sagging or slumping

### Rockwool Flexi slab

#### Multi Purpose Insulation For General Building Applications

The ROCKWOOL RW Slab Range is used for thermal, acoustic and fire insulation in general building applications, certified to EN 13162. The product range consists of high quality resin bonded slabs in a variety of thicknesses and densities. Specialist sizes and thicknesses are available to special order. Black or white tissue and aluminium foil facings are available on 600mm x 1200mm slabs.

#### Benefits

- Excellent thermal, acoustic and fire insulation
- Water repellent
- Easy to handle and install
- Cost effective
- Durable

## Loft Roll

### Loft Roll

is suitable for use as loft insulation in ventilated and unventilated cold roof spaces. When used in new buildings or upgrading existing buildings URSA 10 loft insulation is the most cost effective way to reduce heat loss through the roof.

Loft Roll is suitable for both ventilated and unventilated roof spaces and may be used in multiple layers to achieve very low U-values.

To minimise the condensation risk a vapour control layer is required when insulating between the rafters at ceiling level, this can either be a polythene sheet (minimum 500g) or a foil-backed plasterboard. The use of the vapour control layer also creates an air barrier that helps to improve the air tightness of the building and so limit air infiltration. The type of roofing underlay should be carefully considered. Breathable membranes (Type LR) may not require roof space ventilation provided they are covered by BBA certification. More traditional bitumen or polythene based membranes (Type HR) require provision for eaves and ridge ventilation.

The plasterboard ceiling should be sealed at the junction with walls with plaster, adhesive or flexible sealant and around service penetrations using a flexible sealant.

As the loft space remains cold any water services, tanks, pipes and cisterns must be insulated to avoid freezing or condensation problems. Omit insulation underneath water tanks at ceiling level as heat from inside the building will help to prevent the tanks from freezing.

Recessed lighting should be in a sufficiently large enclosure to ensure continuity of the insulation whilst still allowing heat to dissipate from the lamp. The fixture should be sealed to maintain a vapour tight ceiling and prevent unwanted air leakage, with increasing levels of insulation.