ENERGYS AVER®

Blown cavity wall insulation
ENERGYSAVER®

Cost-effective blown cavity wall insulation.

ROCKWOOL ENERGYSAVER® is a vapour permeable insulation system for masonry cavity walls that allows the construction to breathe. Treated with an inert water repellent during manufacture, ENERGYSAVER® is the natural choice for energy conservation.
Description
Made from non-combustible, highly sustainable volcanic rock, ROCKWOOL ENERGYSAVER® is an entirely dry and vapour permeable insulation system for masonry cavity walls that allows new and existing constructions to breathe. Treated with an inert water repellent during manufacture, the product prevents water from migrating across the cavity.

Advantages
- Non-combustible Euroclass A1
- Ensures a complete fill without settlement
- Water repellent – prevents water from migrating across the cavity
- Vapour permeable – breathable; reduces the risk of condensation
- Suitable for both existing and new-build cavity walls
- BBA approved for use up to 25m in height
- Cost-effective solution
- Quick and clean to install

Applications
ROCKWOOL ENERGYSAVER® is designed for use with both existing and new-build masonry cavity walls.
Performance
ROCKWOOL ENERGYSAVER® has a thermal conductivity of 0.039 W/mK.

Technical information
Standards & approvals
ENERGYSAVER® has been examined by both the British Board of Agrément (BBA) and the Irish Agrément Board (IAB). Certification covers use in masonry cavity walls with a minimum 50mm cavity width (IAB 40mm), for buildings up to 25m in height, in any exposure zone. The assessments are covered by:

- BBA Certificate No. 89/2316
- IAB Certificate No. 05/0222

Product properties
ENERGYSAVER® has over 40 years’ proven service in all types of climate and degrees of exposure. It provides effective protection for the lifetime of the building. It is completely rot proof and does not encourage the growth of fungi, moulds or bacteria.

ENERGYSAVER® will not react with wire, plastic or metal wall ties; brickwork, masonry or cause loss of plasticiser from PVC cables and pipes.

This insulation repels water due to the presence of water resistant additives.

The ENERGYSAVER® system is designed to prevent water from transmitting to the inner leaf.

In situations where the insulation is present above and below the ground-floor damp-proof course, it prevents ground water from being transmitted by capillary action.

ENERGYSAVER® reduces the risk of condensation and allows natural drying out of the wall construction due to its ability to ‘breathe’.

Moisture condensing from the air within the insulation is less than 0.02% by volume at 95% relative humidity.

The vapour resistance of ENERGYSAVER® is negligible. Calculations of vapour diffusion through structures have shown that it is generally the same as for air.

Where condensation and black-spot mould have occurred on inner walls of existing occupied buildings, providing that heating and ventilation are adequate, and it is not a result of a cold bridge, ENERGYSAVER® assists in the reduction of this problem.

Handling
ROCKWOOL ENERGYSAVER® is supplied in compression-packed 25kg polythene bags.
**Installation**

Installation of ENERGYSAVER® cavity wall insulation is carried out by ROCKWOOL trained installers. At least one member of each installation team must carry an appropriate identity card.

For names and addresses of local approved installers please contact ROCKWOOL Technical Support on 0871 222 1780.

ROCKWOOL ENERGYSAVER® cavity wall insulation is normally installed to a predetermined density in existing properties by drilling and filling via the outer leaf of the cavity wall. It is installed through 18mm or 25mm holes, drilled at 1.5m centres in a staggered ‘W’ pattern. When working on facing brick walls, these holes are normally located at mortar joint positions.

Additional filling holes may be required to ensure that the cavity is completely filled. After injection, the existing finish of the wall is matched as closely as possible.

In new buildings, installation may be carried out, either from the outside, or through the inner leaf of the cavity wall, prior to plastering.

**Installation responsibilities**

Filling to the correct density within the cavity is achieved with blowing machinery which is tested and approved by the respective Agrément Certificate Board. The approved installer provides all necessary hoses, drilling equipment and materials for re-mortaring after installation of the blown wool.

The positions of drilled holes are based on patterns designed by ROCKWOOL Limited as defined in the Agrément Certificate applicable to the system. These patterns ensure that the cavity to be insulated is completely filled – for more information please see BBA Agrément Certificate number 89/2316.

**Minimum cavity widths**

Under the Agrément Board approvals, the minimum residual cavity width for existing buildings being filled are:

- 50mm (BBA Certification No. 89/2316)
- 40mm (IAB Certificate No. 05/0222)

**Site surveys**

An inspection survey is carried out by the approved installer to determine the suitability of the building for ENERGYSAVER® using the following criteria:

Walls must be in a good state of repair and free from evidence of frost damage.

There should be no signs of dampness on the inner face of the existing cavity wall other than those caused solely by condensation.

Any defects recorded which may affect the performance of the installed insulation system must be rectified by the client to the satisfaction of the certificate holder/approved installer before work commences.

Where practicable, all open cavities at the top of walls should be sealed prior to filling. It is also essential that airbricks and vents are checked in advance to prevent them from being blocked during installation.

When filling the cavity of one dwelling in a pair of semi-detached or terraced properties, a vertical ‘brush’ stop must be installed between the respective properties prior to installation.

In existing buildings with open-flued or chimney arrangements any heating appliances that require installing should be checked before and after ENERGYSAVER® installation to ensure that they comply with BS 5440: Part 2: ‘Ventilation of new or replacement gas appliances’.

In terms of balanced flue appliances there are no restrictions on the use of ENERGYSAVER® because it is non-combustible.
Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:

- **Fire resistance**
- **Acoustic comfort**
- **Sustainable materials**
- **Durability**

Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC. ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

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The ROCKWOOL Trademark

ROCKWOOL® - our trademark

The ROCKWOOL trademark was initially registered in Denmark as a logo mark back in 1936. In 1937, it was accompanied with a word mark registration; a registration which is now extended to more than 60 countries around the world.

The ROCKWOOL trademark is one of the largest assets in the ROCKWOOL Group, and thus well protected and defended by us throughout the world.

If you require permission to use the ROCKWOOL logo for your business, advertising or promotion, you must apply for a Trade Mark Usage Agreement. To apply, write to: marketcom@rockwool.com.

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