



Application type

Thermal and Acoustic

Construction type

Pitched Roof Lofts

# ROCKWOOL

## Rockwool Blown Loft Insulation

The quicker to install loft insulation for new and existing lofts

Rockwool Blown Loft Insulation is today's solution to meet the thermal regulations for both new-build and existing loft spaces. Installation is quicker than laying conventional roll insulation and creates minimum disturbance.

### Advantages

- Excellent thermal insulation
- Ideal for new and existing lofts (topping up)
- Quicker to install than conventional double layering of roll
- Improved sound insulation
- Approved Rockwool installers



Installation of Rockwool Blown Loft Insulation



Certificate No FM 02262

The following NBS Plus clause is included:

P10:150



# Description, performance and properties

## Standards and approvals

British Standards: BS EN 13162:2001

Thermal insulation products for buildings – Factory made mineral wool products – specification

## Density

The nominal blown density of the product is 30kg/m<sup>3</sup>

## Thermal Conductivity

The thermal conductivity ( $\lambda$  value) of the product, measured at a mean temperature of 10°C is 0.043W/mk.

## Compatibility

Rockwool will not react with any metal components in the loft, nor will it cause loss of plasticiser from PVC cables and pipes (see electrical cable notes).

## Durability

Rockwool Blown Loft Insulation is a durable material. When installed, it will not be affected by normal ventilation within the loft space and will remain as an effective loft insulation for the life of the building.

## Electrical Cables

The IEE wiring regulations, BS.7671:1992 and the current edition of the Electricians Handbook, give guidance on the correction factors to be applied in down rating cables according to the situation. Each case should be calculated separately.

## Loft Hatches

Covers to loft hatches should be insulated with a minimum thickness of 100mm Rockwool Roll. To prevent disturbance of the blown insulation when gaining access and leaving loft space, a Rockwool cardboard 'hatch box' is fitted around the joist/trimmers as shown in the photograph below.



## Acoustic Performance

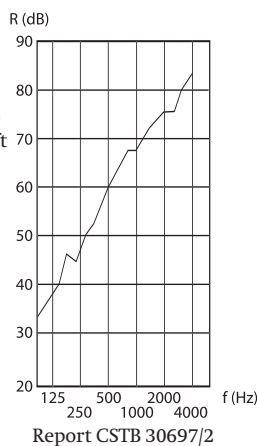
Rockwool Blown Loft Insulation can improve the sound insulation of a building. 250mm of Rockwool Blown Loft Insulation, with an isolated 12.5mm plasterboard ceiling, achieved > 50dB reduction in a tiled roof construction.

## Fire classification

Rockwool Blown Loft Insulation achieves a reaction to fire classification of A1 as defined in BS EN 13501-1.

## Design Details

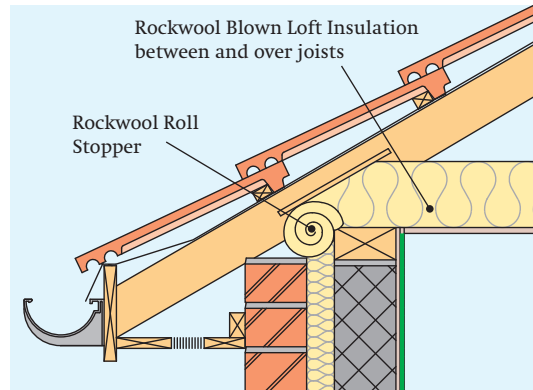
It is essential that the Rockwool Blown Loft Insulation does not block the ventilation path from the eaves. It is also desirable that the loft insulation links to the wall insulation. The method of obtaining these two requirements will vary depending on building design and whether it is new-build or refurbishment. The following suggestions are for guidance only and each individual building will require separate assessment.



New-build: Extend the cavity wall insulation to the underside of proprietary ventilation trays fitted between the rafters as shown in the drawing below.

Refurbishment: Use a 'stopper' of Rockwool Roll placed between the wall plate and the underside of the eaves ventilation tray. This will ensure the required ventilation path is maintained and help reduce cold bridging.

## U values



Tiled pitched roof, 100mm Rockwool Blown loft insulation between joists (with the additional thickness of Rockwool Blown loft insulation over joists).

Ceiling joist		38 ¥ 100mm		47 ¥ 100mm	
Joist spacing (mm)		400	600	400	600
RW Blown Loft Thickness (mm)		U value (W/m <sup>2</sup> K)		U value (W/m <sup>2</sup> K)	
Between joists	Over joists				
100	100	0.21	0.21	0.22	0.21
100	120	0.19	0.19	0.20	0.19
100	150	0.17	0.17	0.17	0.17
100	160	0.16	0.16	0.16	0.16
100	180	0.15	0.15	0.15	0.15
100	200	0.14	0.14	0.14	0.14
100	220	0.13	0.13	0.13	0.13
100	250	0.12	0.12	0.12	0.12
100	300	0.11	0.11	0.11	0.11

## Part L U value requirements for insulation at Ceiling Level:

Extensions, Renovation & Repair work: 0.16W/m<sup>2</sup>K

New build requirement could range between 0.13 and 0.12W/m<sup>2</sup>K to achieve a 20 - 28% improvement in energy performance standards.

## Health and safety

Current HSE 'CHIP' Regulations and EU directive 97/69/EC confirm the safety of Rockwool mineral wool; Rockwool fibres are not classified as a possible human carcinogen.

The maximum exposure limit for mineral wool is 5mg/m<sup>3</sup>, 8 hour time-weighted average.

A Material Safety Data Sheet is available from the Rockwool Marketing Services Department to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

## Environment

Rockwool insulation relies on entrapped air for its thermal properties; air is not a VOC and it does not have Global Warming Potential (GWP) or Ozone Depleting Potential (ODP).



## Technical Information

For further details visit our website at [www.rockwool.co.uk](http://www.rockwool.co.uk) or phone the Technical Hotline on 0871 222 1780

Rockwool Limited reserves the right to alter or amend the specification of products without notice as our policy is one of constant improvement.

The information contained in this data sheet is believed to be correct at the date of publication. Whilst Rockwool will endeavour to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information contained in this data sheet.

The above applications do not necessarily represent an exhaustive list of applications for Rockwool Blown Loft Insulation. Rockwool Limited does not accept responsibility for the consequences of using Rockwool Blown Loft Insulation in applications different from those described above. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.

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