

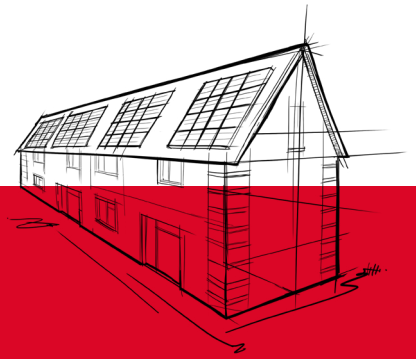

# Thermal Insulation Cavity Batt

## Thermal protection for masonry cavity walls.

Thermal Insulation Cavity Batt provides thermal insulation for external walls as well as thermal and acoustic insulation for party walls.

Thermal Insulation Cavity Batt can provide a tight fit, without gaps, to maximise performance. Any moisture from the external leaf will not transfer to the inner leaf, helping to prevent rot and mould. The batts are also Euroclass A1 non-combustible, and do not require the use of additional cavity barriers.

- Thermal Insulation Cavity Batt is able to resist temperatures of over 1,000°C, and achieves the highest Euroclass A1 non-combustibility classification as defined in EN 13501-1.
- British Board of Agrément approved for use in all exposure zones.
- When ROCKWOOL stone wool slabs are tightly joined together, the edges knit together providing a continuous insulating layer of trapped pockets of air with no gaps and no associated loss of thermal performance.*
- Does not require the use of cavity barriers.



**ROCKWOOL Thermal Insulation Cavity Batts are a semi-rigid full fill insulation solution for use in external and party masonry cavity walls.**

Batts can be cut to size and installed with a tight fit to reduce gaps. Any moisture from the external leaf will not transfer to the inner leaf, helping to prevent rot and mould.

*ROCKWOOL Technical Bulletin 3 – Performance Gap*

**For more information visit rockwool.com/uk**

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# Thermal Insulation Cavity Batt



## APPLICATIONS

Thermal Insulation Cavity Batt is designed for use in external masonry cavity walls to deliver thermal protection in residential extension and renovation work. The following tables show the typical construction details and their corresponding thermal performance, or U-value. Thermal Insulation Cavity Batts are also used in masonry party walls to prevent the "thermal bypass effect", and achieve a zero U-value*, while also providing the required sound reduction.

Thermal Insulation Cavity Batt has been examined by the British Board of Agrément (BBA) and granted Certificate 94/3079 for use in all exposure zones for domestic and non-domestic buildings that are up 25m in height.

The NHBC accepts the use of Thermal Insulation Cavity Batt, other than in very severe exposure locations with fair-faced masonry, provided it is installed, used and maintained in accordance with the BBA Certificate, in relation to NHBC Standards, Chapter 6.1, External masonry walls.

This product is intended for use on the external side of the vapour barrier.

** Zero U-value judgements as recognised in Building Regulations' Approved Document L.*

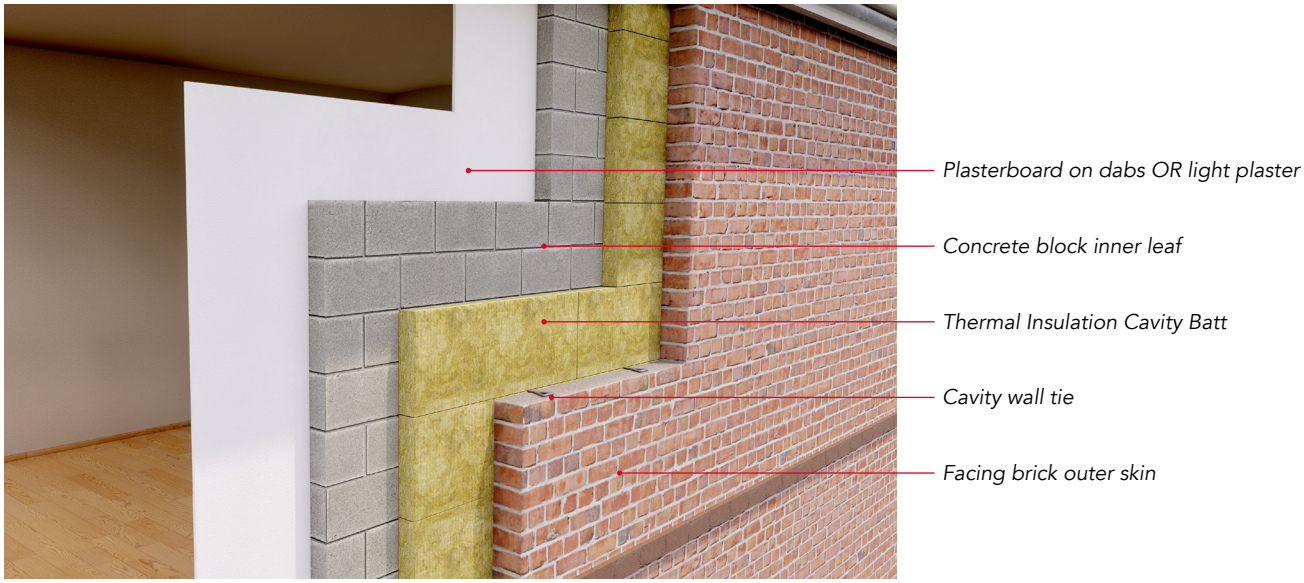
# Thermal Insulation Cavity Batt

Typical Constructions

Construction 1

102mm facing brick outer skin, Thermal Insulation Cavity Batt, 100mm internal concrete block (various densities).

Internal finishes: light plaster or plasterboard on dab.




| Internal block W/mK | Dense 1900-2250kg/m³ 1.130 W/mK | | Medium dense 1400-1450kg/m³ 0.470 W/mK | | Aircrete Hi Strength 750kg/m³ 0.190 W/mK | | Aircrete Standard 600kg/m³ 0.150 W/mK | |
|---|---|---|---|---|---|---|---|---|
| Internal finish | Light plaster | P/board on dab | Light plaster | P/board on dab | Light plaster | P/board on dab | Light plaster | P/board on dab |
| Cavity (mm) | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K |
| 100 | 0.32 | 0.30 | 0.31 | 0.29 | 0.28 | 0.27 | 0.28 | 0.27 |

# Thermal Insulation Cavity Batt

### Construction 2

Render on 100mm medium dense block outer, Thermal Insulation Cavity Batt, 100mm internal concrete block (medium dense or Standard Aircrete).

Internal finishes: light plaster or plasterboard on dab.

| Internal block<br>W/mK | Medium dense<br>1400-1450kg/m³<br>0.470 W/mK | | Aircrete Standard<br>600kg/m³<br>0.150 W/mK | |
|---|---|---|---|---|
| Internal finish | Light plaster | Plasterboard on dab | Light plaster | Plasterboard on dab |
| Cavity (mm) | U-value W/m²K | U-value W/m²K | U-value W/m²K | U-value W/m²K |
| 100 | 0.31 | 0.29 | 0.28 | 0.27 |

The U-values shown in the constructions above are based on the following:

- Internal face of walls lined with either plasterboard on dab or 13mm lightweight plaster.
- Block sizes assumed to be 440 x 215mm, mortar joints assumed to be 10mm wide.
- Wall ties are stainless steel with a cross-sectional area of 12.5mm².

### Party wall thermal bypass - achieving a zero heat loss

Building standards have also recognised that where party cavity walls between connected buildings are untreated, considerable heat can escape through them. A key feature of the SAP calculation is that party wall cavities should have a zero heat loss (U-value 0.00W/m²K). If these cavities are left unfilled and unsealed, a U-value of 0.05W/m²K will automatically be applied making it extremely difficult to meet the TER compliance.

| Party wall construction | U-value (W/m²K) |
|---|---|
| Unfilled cavity with no effective edge sealing | 0.50 |
| Unfilled cavity with effective edge sealing only | 0.20 |
| Fully filled cavity and effective edge sealing | 0.00 |

### Perimeter edge sealing details

The table below details how to achieve perimeter edge sealing using the Thermal Insulation Cavity Batt and SCB.

| Perimeter edge sealing: | ROCKWOOL SCB |
|---|---|
| Party wall insulation: | 100mm party wall filled with Thermal Insulation Cavity Batt |
| Party wall blocks: | 100mm (min) each leaf (dense aggregate blocks density 1850-2300kg or lightweight aggregate blocks density 1350-1600kg |
| Wall finish to party wall: | Gypsum-based board (nominal mass 8kg/m²) mounted on dabs with parged finish to block faces |

# Thermal Insulation Cavity Batt

### Party walls – Achieving Part E of the Building Regulations (resistance to the passage of sound)

As well as delivering the required thermal performance for extensions and thermal upgrades in external cavity walls, Thermal Insulation Cavity Batt also achieves a zero U-value heat loss in party walls, and helps to achieve the required airborne sound reduction of 45dB to achieve Part E of the Building Regulations.

### Robust detail approval for use as acoustic insulation in masonry party wall constructions

Robust Details Limited was formed in December 2003 in response to the housebuilding industry's request for an alternative to pre-completion sound testing, as a means of satisfying the sound insulation requirements of the Building Regulations.

Below are the constructions to achieve the referenced Robust detail for masonry construction.

| Robust detail wall reference - masonry | Party wall construction | Party wall cavity size (mm) |
|---|---|---|
| E-WM- 1 | Dense blocks 1850-2300kg wet plaster | 75-100 |
| E-WM- 2 | Light agg. blocks 1350-1600kg wet plaster | 75-100 |
| E-WM- 3 | Dense blocks 1850-2300kg render faces/plasterboard on dab | 75-100 |
| E-WM- 4 | Light agg. blocks 1350-1600kg render/plasterboard on dab finish | 75-100 |
| E-WM- 5 | Besblock "Star Performer" dense aggregate cellular blocks/render/plasterboard on dab | 75-100 |
| E-WM-11 | Lightweight 1350-1600kg agg. or nominated hollow or cellular blocks/render/ plasterboard on dab | 75-100 |
| E-WM- 16 | Dense aggregate blocks 1850-2300kg render/plasterboard on dab | 75-100 |
| E-WM- 18 | Dense blocks 1850-2300kg wet plaster | 100 |
| E-WM- 19 | Monarfloor Bridgestop System 100 mm Dense or lightweight blocks or nominated hollow or cellular blocks/render/plasterboard on dab | 100 |

# Thermal Insulation Cavity Batt

## TECHNICAL INFORMATION

### Technical information

### Thermal

Thermal Insulation Cavity Batt achieves a thermal conductivity lambda (λ) value of 0.037 in accordance with BS EN 13162:2012 + A1:2015.

### Fire classification

Achieves a reaction to fire classification of A1, as defined in EN13501-1. Resistance to fire spread between and within cavities. Thermal Insulation Cavity Batt is non-combustible and therefore suitable for use in buildings of every purpose group. It also acts as a cavity barrier when tightly fitted between masonry leaves where an insulated wall connects with an uninsulated wall cavity.

### Water resistance and moisture

ROCKWOOL stone wool insulation is water repellent and non-hygroscopic, meaning it will not absorb water from the surrounding environment. It retains its thermal performance even in humid conditions, helping to support the durability of the building fabric.

### Condensation

ROCKWOOL stone wool insulation is vapour permeable, reducing the risk of condensation, which can lead to rot, mould, and humidity damage.

### Product information

| Product | Thickness (mm) | Width (mm) | Length (mm) | Batts per pack | Coverage per pack ($m^2$) | Lambda (W/mK) | R-value ($W/m^2K$) |
|---|---|---|---|---|---|---|---|
| Thermal Insulation Cavity Batt | 100 | 455 | 1200 | 6 | 3.28 | 0.037 | 2.7 |

BUILDING SAFETY AND PRODUCT USE

## LEGAL NOTICES

### General safety requirements – Building Safety Act 2022

ROCKWOOL Limited is committed to supporting specifiers, resellers and users of ROCKWOOL products for the full life cycle of the product to comply with the obligations and responsibilities set out in the Building Safety Act 2022. With regard to the general safety requirements of the Act, ROCKWOOL Limited cannot control or foresee every situation where its products might be used. We therefore strongly advise that specifiers, resellers and users contact us where use of ROCKWOOL products is contemplated in applications different from those explicitly described in the latest, relevant ROCKWOOL product datasheets; especially in applications that can be reasonably foreseen as critical to safety.

ROCKWOOL Limited reserves the right to amend the specification of its products without notice. Changes to the ROCKWOOL manufacturing process, or to pertinent regulations, may be reflected in changes to tested and certified product performance. Whilst ROCKWOOL Limited endeavours 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 our publications.

ROCKWOOL Limited does not accept responsibility for the consequences of using (including testing or certifying) its products in applications different from those explicitly described in the relevant ROCKWOOL product datasheets. Expert advice should be sought, and ROCKWOOL Limited should be contacted, where such different use is contemplated, or where the extent of any use described by ROCKWOOL Limited is in doubt.

### 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 most important assets of the ROCKWOOL Group, and is therefore well-protected and defended by ROCKWOOL 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

### Trademarks

Registered trademarks of the ROCKWOOL Group include but are not limited to:

ROCKWOOL®, RockClose®, RainScreen Duo Slab®, HardRock®, RockFloor® Flexi®, RockFall®, FirePro®, DuctRock®, BeamClad®, NyRock®

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### Health and safety

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

### Photography and illustrations

The product illustrations are the property of ROCKWOOL Limited and have been created for indicative purposes only.

Unless indicated below, the photography and illustrations used in this guide are the property of ROCKWOOL Limited. We reserve all rights to the usage of these images.

If you require permission to use ROCKWOOL images, you must apply for a Usage Agreement.

To apply, write to:
marketcom@rockwool.com

# Thermal Insulation Cavity Batt

| | |
|---|---|
| **Company:** | ROCKWOOL Limited |
| **Version:** | Version 1.04 August 2026<br>*(to check this is the latest version, please refer to rockwool.com/uk)* |
| **Revised on:** | 10.08.2026 |
| **Product name:** | Thermal Insulation Cavity Batt |
| **Replaces version:** | Version 1.03 October 2025 |
| **Changes made:** | • Updated application information |
| **Additional information:** | N/A |

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*Please contact the ROCKWOOL Technical Support Team if you would like to access archived versions of this document.*

# ROCKWOOL stone wool – safe to install and live alongside

There are no hazardous classifications associated with stone wool insulation manufactured by ROCKWOOL UK according to EU REACH and UK REACH regulations on health and the environment.

ROCKWOOL safe use instruction sheets and material safety data sheets (where applicable) can be downloaded here.

## Sustainability

ROCKWOOL products are used to help enrich modern living, supporting more resilient and comfortable buildings.

We transform abundant, natural volcanic rock into stone wool insulation products that help our customers tackle energy consumption, noise pollution, fire resilience, and climate change challenges such as water scarcity and flooding.

Since our stone wool is endlessly recyclable with no loss in its performance properties, we can take back clean, uncontaminated new off-cuts and unused ROCKWOOL stone wool insulation from construction sites in the UK. Our service, Rockcycle®, takes back our stone wool and recycles it back into production where it is used to make new ROCKWOOL products.

Our annual sustainability reports, which set out progress against our sustainability goals, and further details of the positive impacts of using our products can be found on our website.

## Environment

ROCKWOOL takes a fact-based, auditable approach to documenting our progress in maximising our products' positive impact and minimising the effect our operations have on the environment, backed by third-party references and methodologies. Further details can be found online in our annual sustainability report.

Our high-tech production process uses filters, pre-heaters, after-burners and other cleaning and collection systems that help to reduce the effects of our manufacturing operations on the environment.

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





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