



Roll, Twinroll and Rollbatt

Thermal and acoustic solutions for roof and loft spaces

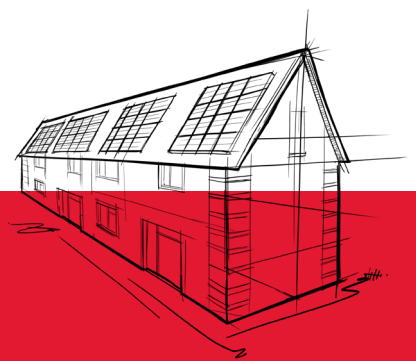
ROCKWOOL provides three variations of Roll to deliver products that are quick and easy to install, in roof and loft spaces for a variety of building types.

ROCKWOOL Roll consists of a single thickness of 1200mm wide roll, which can be cut to fit as required.

Twinroll is pre-split into 2 x 100mm thick layers in a pack, for quick and easy installation. 100mm is installed between the rafters, and then 200mm over the rafters.

Rollbatt is pre-split into either 2 x 600mm widths or 3 x 400mm widths.

- Thermal conductivity of 0.044 W/mK
- Non-combustible - Euroclass A1 classification as defined in EN 13501-1
- Multi-application for roof and loft spaces
- Available as a complete roll, pre-cut widths, or pre-split, for easy installation
- Durability – will not sag or slump



ROCKWOOL Roll, Twinroll and Rollbatt are medium density thermal insulation products with acoustic properties and Euroclass A1 fire resistance.

Just like stone, ROCKWOOL stone wool insulation is durable by nature. Its energy saving power is persistent, which makes it a wise choice in terms of energy costs over the life time of a building.

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Figure 1 - ROCKWOOL Roll

APPLICATIONS

ROCKWOOL Roll products are suitable for a wide range of applications including roof spaces in all types of building and as an overlay for ceiling tiles in suspended ceilings.

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PERFORMANCE

Thermal performance

ROCKWOOL Roll, Twinroll and Rollbatt products achieve a thermal conductivity lambda (λ) value of 0.044 W/mK, in accordance with BS EN 13162:2012 + A1:2015.

Fire performance

ROCKWOOL Roll products are non-combustible achieving a reaction to fire classification of A1, as defined in EN13501-1.

Acoustic performance

The incorporation of ROCKWOOL Roll, Twinroll and Rollbatt within suitably designed constructions provides improved levels of sound reduction.

The non-directional fibre orientation and density of stone wool means that sound waves are trapped, and vibrations dampened which can significantly reduce outside sources of noise when used in an external wall.

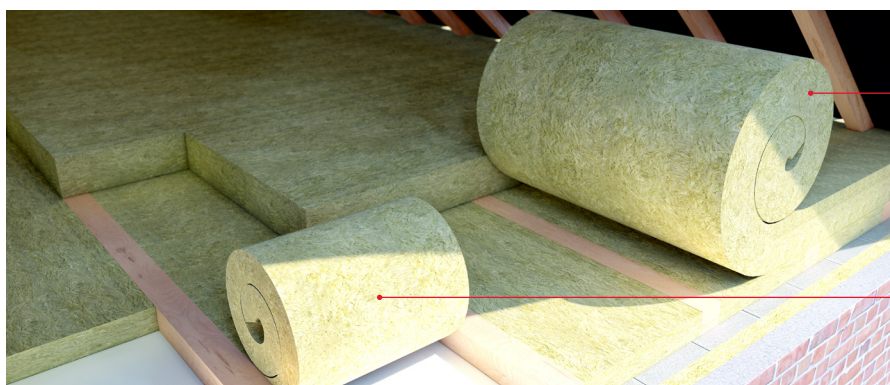
ROCKWOOL insulation retains its shape and thickness for the lifetime of the building, which means it performs acoustically decade after decade.

TYPICAL U-VALUES

Loft insulation - U-values

To comply with Thermal Building Regulations across the devolved nations, new pitched roofs with loft spaces need to achieve U-values of between 0.13 and 0.09 W/m²K. The table below shows different approaches to achieve a range of U-values in a loft application.

U-value (W/m ² K)	Between joists (mm)	Plus	Over joists (mm)	Total thickness (mm)
0.17	100	+	150	250
0.16	100	+	170	270
0.14	100	+	200	300
0.12	100	+	250 (2 x 150)	350
0.11	100	+	300	400
0.09	100	+	400	500



ROCKWOOL Roll/Twinroll/Rollbatt over the joists, cross laid over the joists

ROCKWOOL Roll/Twinroll/Rollbatt laid between the joists

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TYPICAL U-VALUES

Product information

The following table details the product information and formats for the ROCKWOOL Roll products:

Product	Frame	Thickness (mm)	Width (mm)	Length (mm)	Area (m ² per pack)	Lambda (W/mK)	R-value (W/m ² K)
Twinroll	Pre-split (2 x 100mm thickness), not pre-cut	200 (2 x 100)	1200	2750	6.60	0.044	2.27
Roll	Single thickness, not pre-cut	150	1200	3200	3.84	0.044	3.41
Roll	Single thickness, not pre-cut	170	1200	3200	3.84	0.044	3.86
Rollbatt	Single thickness, pre-cut	100	1200 (2 x 600)	4800	5.76	0.044	2.27
Rollbatt	Single thickness, pre-cut	100	1200 (3 x 400)	4800	5.76	0.044	2.27
Rollbatt	Single thickness, pre-cut	150	1200 (2 x 600)	3200	3.84	0.044	3.41
Rollbatt	Single thickness, pre-cut	150	1200 (3 x 400)	3200	3.84	0.044	3.41

INSTALLATION

- Water tanks: Insulation should not be placed directly under cold water tanks. Where access is required to water tanks etc, supports should be provided for a raised walkway
- Loft hatches: To preserve the continuity of insulation, loft hatch covers should be insulated with a minimum 100mm thickness of ROCKWOOL Roll. Double-sided adhesive tape may be used to hold the insulation in place
- Electrical Cables: The IEE Wiring Regulations, 17th edition and British Standard BS 7671: 2008 provide guidance on the correction factors to be applied in down-rating cables according to the situation
- Each case should be separately assessed. Where possible, all cables should be lifted free of the insulation

To meet this thermal performance and minimise heat loss through the timbers, ROCKWOOL Roll, Twinroll or Rollbatt should be cross-layered between and over the ceiling joists.

The first layer (generally of 100 mm thickness) is rolled between the ceiling joists, which are normally spaced at 400mm or 600mm centres.

A second layer of ROCKWOOL Roll/Rollbatt (e.g. 170 and 220mm thick) or Twinroll (200mm thick) is then cross-layered to cover the first layer of insulation and the ceiling joists.

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ADDITIONAL INFORMATION

Durability

ROCKWOOL stone wool is durable by nature. Sample testing from existing buildings shows that ROCKWOOL stone wool retains its performance for at least 65 years* without being affected by compression or temperature and humidity changes.

*FIW, *Durability Project Mineral Wool* (2016).

Condensation

ROCKWOOL stone wool insulation allows the construction to breathe, reducing the risk of condensation, which can lead to rot, mould and humidity damage.

STANDARDS AND APPROVALS

Certificate

ROCKWOOL Roll products satisfy the requirements of BS EN 13162 "Thermal insulation products for buildings. Factory made mineral wool (MW) products".

Manufactured under ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems.



INSTALLATION

The product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit www.rockwool.com/uk or contact our Technical Solutions Team on 01656 868490.

SPECIFICATION CLAUSES

The following NBS clauses include ROCKWOOL Roll products:

K10:115, K10:155, K10:165, K10:185, K11:215, K11:225, K11:235, P10:40, P10:45, P10:120, P10:125, P10:130, P10:135, P10:140, P10:210, P10:240, P10:250

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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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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](#).



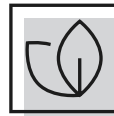
Sustainability

ROCKWOOL products are used to enrich modern living, creating safer, healthier and more climate-resilient communities.

We transform abundant, natural volcanic rock into stone wool insulation products that are used to reduce energy demand, lower fuel bills and help address society's climate change challenges.

ROCKWOOL stone wool insulation is recyclable and can be transformed into new ROCKWOOL products. Please contact us for details of how we can work together to recycle waste ROCKWOOL stone wool material that may be generated during on-site installation.

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).

