



Roll, Twin Roll and Rollbatt

An effective range of loft solutions

Rockwool Roll and Rollbatt provide effective, medium density thermal loft insulation, in thicknesses from 100mm to 220mm, preventing fuel bills in all building types from going through the roof.

The newly developed Twin Roll is the only mineral wool loft insulation to offer two high performance solutions in one roll, saving on time, money and space.



The following NBS clauses include Rockwool Roll and Rollbatt: K10:215, K10:225, K10:235, K11:115, K11:125, K11:135, K11:145, K20:150, K20:160, K21:120, K21:130, K40:105, K40:110, K40, 130, K40:226, P10:140, P10:250

Rockwool Roll, Twin Roll and Rollbatt



Advantages

- Multi-application products
- Provides superb fit
- Outstanding thermal and acoustic properties
- Exceptional fire resistance
- Roll is easy to cut and use for 400 and 600mm centres
- Rollbatt is pre-cut in 400 and 600mm widths
- Twin Roll can be used as a single 200mm top up layer or separated and used as a 100mm roll between joists

600mm (x2) widths in 100mm, 150mm and 170mm thicknesses.

Thickness (mm)	Roll length (mm)	m ² /pack
100 Roll/Rollbatt	4800	5.76
150 Roll/Rollbatt	3650	4.38
170 Roll/Rollbatt	3200	3.84
200 Twin Roll (2 x 100)	2750 (x2)	6.60
220 Roll	2500	3.00

Installation guidance

- 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, 16th edition, British Standard BS 7671: 2001 and the Electricians' Handbook (latest edition) 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.

Packaging

Roll, Twin Roll and Rollbatt are supplied palletised and protected by a waterproof covering which allows the product to be stored outside.

Product properties and design

Dimensions

Roll

Rockwool Roll is manufactured at a width of 1200mm. The packaging provides cutting guidelines for 400mm or 600mm width requirements and the use of a long serrated blade will ensure that it is cut to the desired measurements. Roll is available in four thicknesses from 100mm to 220mm.

Twin Roll

The newly developed Twin Roll is manufactured as one 200mm roll, which has been pre-sliced down the middle to create the option of 2 x 100mm rolls in one package.

Rollbatt

Rockwool Rollbatt is supplied pre-cut to 400mm (x3) or

Compatibility

All Rockwool Roll products (Roll, Twin Roll and Rollbatt) will not react with any metal components in the loft, nor will it cause loss of plasticiser from PVC cables and pipes (see also the note on electrical cables above).

Standards and quality approvals

All Rockwool Roll products conform to BS EN 13162:2008 'Specification for factory-made mineral wool products.'

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Product performance

Thermal performance

Rockwool Roll, Twin Roll and Rollbatt products have a thermal conductivity (k value) of 0.044W/mK.

U-values

Part L: 2010 edition requires new pitched roofs with loft spaces to achieve U- values of between 0.16 and 0.13W/m²K. To meet this thermal performance and minimise heat loss through the timbers, Rockwool Roll, Twin Roll 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. 170mm thick) or Twin Roll (200mm thick) is then cross-layered to cover the first layer of insulation and the ceiling joists (see fig 1).

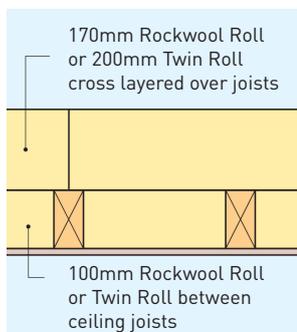


Figure 1 Cross layered Roll U-value 0.16 W/m²K

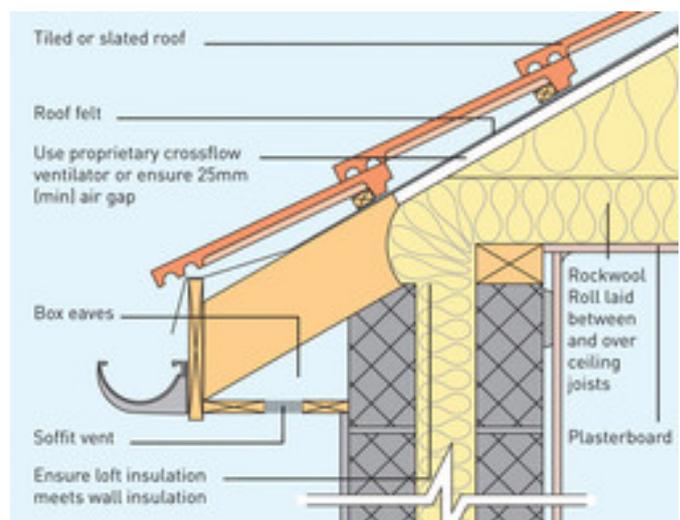
If upgrading loft insulation, check to see if any existing insulation material between joists is tightly butt jointed to the sides of the timber. If not, remove and replace with new. If the existing insulation is in good condition, crosslayer this with a minimum of 170mm Rockwool Roll/Rollbatt or 200mm Twin Roll.

100mm Rockwool Roll, Twin Roll or Rollbatt between joists (with the additional layer of insulation laid over joists shown in table).

Roll Thickness

U-value W/m ² K	Between joists	plus	Over joists	Total thickness
0.17	100mm	+	150mm	250mm
0.16	100mm	+	170mm	270mm
0.14	100mm	+	200mm (Twin roll)	300mm
0.13	100mm	+	220mm	320mm
0.12	100mm	+	250mm (100+150)	350mm
0.11	100mm	+	300mm (2x150)	400mm

Figure 2



Twin Roll

Laying 100mm Twin Roll between the joists and overlaying the joists with 200mm Twin Roll provides a U-value of 0.14 W/m²K which exceeds the minimum U-value of 0.16 W/m²K as required by building regulations.

Acoustic

The incorporation of Rockwool Roll, Twin Roll or Rollbatt within suitably designed constructions provides improved levels of sound reduction.

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Fire classification

All Rockwool Roll products achieve a reaction to fire classification of A1 as defined in BS EN 13501-1.

Specification clause

Thermal insulation to be Rockwool Roll 600 or 400mm wide (delete whichever is not appropriate). The first layers fitted between ceiling joists mm (insert 100, 150, 170, 200 or 220). The additional layer (s)mm (insert 100, 150, 170, 200 or 220) to be cross layered over ceiling joists, with all joints to be closely butted.

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

Health and 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 from Rockwool Technical Support (0871 222 1780) 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).

Environment

Relying on entrapped air for its thermal properties, we are proud to say that Rockwool insulation does not contain (and has never contained) gases that have ozone depleting potential (ODP) or global warming potential (GWP). Rockwool therefore complies with the relatively modest threshold of GWP<5 included in documents such as the Code for Sustainable Homes. Rockwool is increasingly involved in recycling 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 Rockwool materials to our factory for recycling.

More information

For further details visit our website at www.rockwool.co.uk or phone Rockwool Technical Support on 0871 222 1780.

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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 Roll, Twin Roll and Rollbatt. Rockwool Limited does not accept responsibility for the consequences of using Rockwool Roll, Twin Roll and

Rollbatt in applications different from those described within this data sheet. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.