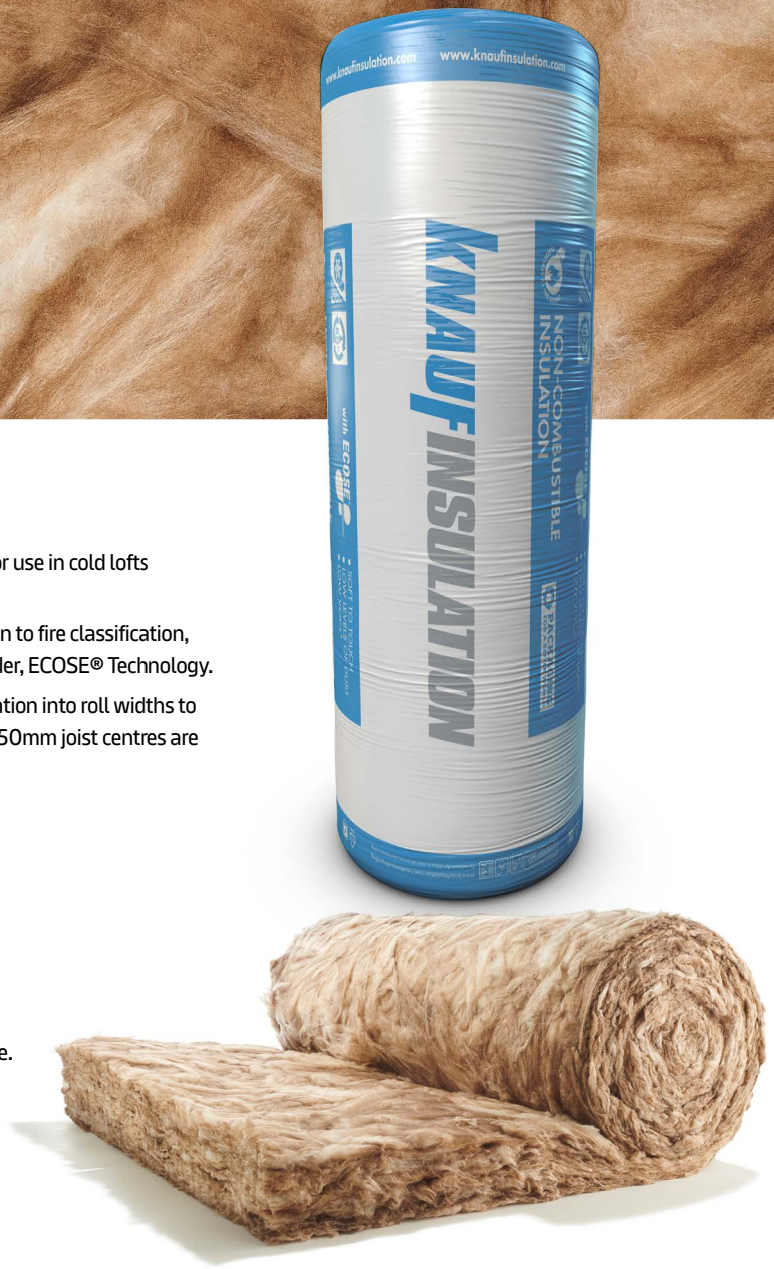
KNAUF INSULATION

Ceiling Roll (Loft Roll)

September 2025

Build on us.



Description

Knauf Insulation Ceiling Rolls are glass mineral wool rolls, designed for use in cold lofts where pitched roofs are insulated at ceiling level.

They are non-combustible with the best possible Euroclass A1 reaction to fire classification, and are manufactured using Knauf Insulation's unique bio-based binder, ECOSE® Technology.

Combi-cut rolls have partially cut perforations allowing ease of separation into roll widths to suit joist centres at 750mm without having to measure or use tools.750mm joist centres are installed using 1 x 800mm or 2 x 400mm widths.

Benefits

- Available as partially cut rolls for use with joists at 750mm centres or unsplit as a full width roll.
- Non-combustible A1 Euroclass reaction to fire classification.
- Lightweight quilt for ease of installation.
- Compression packed for more efficient transportation and storage.
- Manufactured with ECOSE® Technology for improved handling

NON-COMBUSTIBLE INSULATION

with ECOSE® TECHNOLOGY

Ceiling Roll (Loft Roll)

Technical Specifications

CEILING ROLL (LOFT ROLL) UNCUT/COMBI-CUT

Thickness (mm)	R-value m^2K/W	R-value m^2K/W	Length (m)	Width (mm)	Area per pack (m^2)	NRC	Product Code
135	3.38*	3.35	7.50	1200 (800 + 400)	9.00	1.13	632899
135	3.38*	3.35	7.50	1200 (Uncut)	9.00	1.13	617267
100	2.50*	2.50	10.10	1200 (800 + 400)	12.12	1.04	632858
100	2.50*	2.50	10.10	1200 (Uncut)	12.12	1.04	617265
75	1.88*	1.85	12.80	1200 (800 + 400)	15.36	0.93	597309
75	1.88*	1.85	12.80	1200 (Uncut)	15.36	0.93	617263
50	1.25*	1.25	19.00	1200 (800 + 400)	22.80	0.81	632897
50	1.25*	1.25	19.00	1200 (Uncut)	22.80	0.81	617261

*All dimensions are nominal. *Products designed to meet the requirements of thermal legislation of South African climate zones.*

South African R-values calculated assuming 23°C mean temperature.

Euro R-values based on 10 °C mean temperature, calculated according to requirements of λ90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

Ceiling Roll (Loft Roll)

Performance

FIRE CLASSIFICATION

A1	A2-s1, d0	B	C	D	E	F

Euroclass reaction to fire classification - in accordance to SANS 53501-1

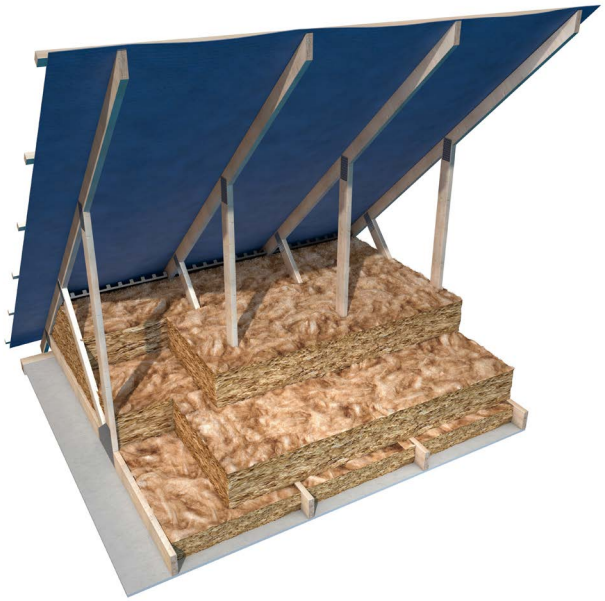
VAPOUR RESISTIVITY

5.00 MNs/g.m

Applications

Cold roof - ceiling level

Typical Build-Ups



Certification, accreditations and industry standards

Ceiling Roll (Loft Roll)

Application

Ceiling Roll (Loft Roll) is primarily used for the thermal insulation of pitched roofs at ceiling level. When used at ceiling level it is usually laid in one or two layers, with the first layer between the joists and the second layer over and at right angles to the joists.

Standards and Certification

Ceiling Roll (Loft Roll) has a product declaration made in conformity with the requirements of BS EN 13162:2012+A1:2015 and are manufactured in accordance with ISO 50001:2018 Energy Management Systems, ISO 14001:2015+A1:2024 Environmental Management Systems, ISO 45001:2023+A1 Occupational Health and Safety Management Systems, and ISO 9001:2015+A1:2024 Quality Management Systems.

All of our mineral wool products are made of non-classified fibres and are certified by EUCEB. EUCEB (European Certification Board of Mineral Wool Products - www.euceb.org) is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres which comply with the exoneration criteria for carcinogenicity (Note Q) of the Regulation (EC) 1272/2008.

Thermal Modelling

The U-value of a proprietary built element (rainscreen facade/ masonry cavity wall/garage soffit etc.) or system is dependent on the material properties and the degree of thermal bridging in the system.

Calculations should be created using 2D or 3D modelling programs which comply with the methodologies detailed in BS EN ISO 6946:2017 or BS EN ISO 10211:2017 and using guidance from BR443:2019.

We offer simplified calculations to BS EN ISO 6946:2017 and where required numerically modelled U-value calculations using software that is compliant with BS EN ISO 10211:2017.

System Testing

Knauf Insulation maintains declared product characteristics and qualities which are defined in detail in its Declaration of Performances (DoPs) and product literature. The product literature also includes information relating to Knauf Insulation's requirements and recommendations for installation of its products when being used as part of a system.

Any party using, or planning to use, our products in a system (with or without system testing) where performance may be dependent on product characteristics not declared on our DoPs or our product literature, must contact our Technical Services Team.

Knauf Insulation will not accept liability for any failure in system performance due to product characteristics not declared on DoPs or product literature, or not agreed in a Service Level Agreement. In such an event, any warranty given in relation to those products will be invalidated.

Real Performance

Glass and rock mineral wool are easier to install correctly than other insulants, such as rigid boards, because they adapt to any slight imperfections in the substrate and knit together, eliminating any air gaps. Mineral wool is engineered to adapt to any imperfections, and any settlement/movement over time, so it maintains close contact and preserves thermal performance for the life of the building.

Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application. Any insulation material that doesn't deliver 'as-built' thermal performance is failing in its primary purpose, and therefore presents an unnecessary risk as the construction industry seeks to close the performance gap.

Durability

Ceiling Roll (Loft Roll) is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Ceiling Roll (Loft Roll)

Sustainability

Ceiling Roll (Loft Roll) is manufactured with ECOSE® Technology, our unique plant-based binder which contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is less energy-intensive to manufacture than traditional binders. Products made with ECOSE® Technology are soft to touch and easy to handle. They generate low levels of dust and VOCs and have been awarded the Eurofins Gold Certificate for Indoor Air Comfort.

All our glass mineral wool products have been awarded the DECLARE `Red List Free' label. The Declare label is a third-party accreditation and is similar to a food nutrition label but for building products; it is a straightforward ingredient list and allows product transparency disclosure because it identifies where a product comes from and what it is made of. Declare 'Red List Free' certifies that there is no harmful chemical from the red list in these products.

Our glass mineral wool is made with up to 80% recycled content (incl. glass from windows, bottles and jars).

Ceiling Roll (Loft Roll) contains no ozone-depleting substances or greenhouse gases. The overall environmental performance of our products is reported in their EPDs (Environmental Product Declarations) which are available on our website. EPDs are available for all our products in accordance with ISO 14025:2023, ISO 21930:2017 and EN 15804+A2:2019.

We have received the BES6001(v4.0) 'Very Good' rating for all our mineral wool in our three plants, which proves that our products are made with constituent materials that are responsibly sourced.

Our 3-tier industry-leading compression-packaging technology allows us to load more product per pack or pallet, and therefore onto each truck that leaves our factories. This means less packaging used per m^2 of insulation, fewer vehicles on our roads, so less associated CO_2 emissions. It also means less transport, handling and storage space required for our customers.

Our individual products and the pallets they sit on are wrapped in low-density polyethylene (LDPE4) plastic, which is made of 30-50% (depending on the supplier) recycled plastic content and is fully recyclable.

Handling and Storage

Ceiling Roll (Loft Roll) should be stored properly and handled in such a way as to ensure that the product remains clean and undamaged.

The polythene packs / shrink-wrapped pallets used for the supply of Ceiling Roll (Loft Roll) are designed for short-term protection only. For longer term protection on site, the product should either be stored indoors or under cover and off the ground. Ceiling Roll (Loft Roll) should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the remaining packs should be kept under cover indoors or protected from the elements by a weatherproof cover. In coastal locations where weather is more extreme and bird damage is more common, use additional covering or store indoors.

The product must be protected from prolonged exposure to sunlight and stored dry and flat.

Ceiling Roll (Loft Roll) is light and easy to handle; care should be exercised to avoid crushing their edges. If damaged, the product should be discarded. Damaged, contaminated or wet product must not be used.

During construction exposed areas of rolls should always be covered at the end of a day's work or in heavy rain. Polyethylene covers should be used to provide protection and prevent work from becoming saturated.

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