

Acoustic Roll

July 2025

Build on us.

Description

Acoustic Roll is a glass mineral wool roll, designed for use in separating or internal wall and floor applications, offering sound absorption and noise reduction properties. It is non-combustible with the best possible Euroclass A1 reaction to fire classification, and is manufactured using our unique plant-based binder, ECOSE® Technology.

Benefits

- › Manufactured density in excess of 10kg/m³ to meet the requirements for an absorption layer in Approved Document E.
- › Tested to meet the sound performance standards for type B internal, timber or metal stud, partitions in Approved Document E.
- › Designed to fit between studs, reducing the potential for unwanted gaps and maximising sound insulation performance.
- › Ready-cut rolls for quick and easy installation.
- › Longer rolls for efficient handling, transport and storage.



NON-COMBUSTIBLE
INSULATION



Acoustic Roll

Technical Specifications

ACOUSTIC ROLL

Thickness (mm)	Length (m)	Width (mm)	Rolls per pack	Area per pack (m ²)	Packs per pallet	GWP A1-A3 (kgCO ₂ e/m ²)	GWP A1-C4 (kgCO ₂ e/m ²)	GWP A1-A3 (kgCO ₂ e/kg)	GWP A1-C4 (kgCO ₂ e/kg)	Pallet product code
100	10.300	2 x 600	1	12.360	24	0.86	1.15	0.75	1.00	715843
100	10.300	3 x 400	1	12.360	24	0.86	1.15	0.75	1.00	715842
75	14.500	2 x 600	1	17.400	24	0.65	0.86	0.75	1.00	715841
63	15.000	2 x 600	2	18.000	24	0.54	0.72	0.75	1.00	603550
50	13.500	2 x 600	2	16.200	24	0.53	0.81	0.71	1.08	715837
25	11.100	4 x 600	4	26.640	24	0.36	0.49	0.75	1.02	715838

All dimensions are nominal

EPD ID: S-P-10428

The declared unit is 1m² of unfaced glass mineral wool Acoustic Roll (63 mm, 75 mm, 100 mm), with R-value of 2.50 m²K/W (for a thickness of 100 mm and a declared lambda of 0.04W/mK).

Performance

FIRE CLASSIFICATION

A1	A2-s1, d0	B	C	D	E	F
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Euroclass reaction to fire classification

VAPOUR RESISTIVITY

5.00 MNs/g.m

Certification, accreditations and industry standards



Applications



Internal walls



Internal floors



Separating floors

Typical Build-Ups



Acoustic Roll

Application

Acoustic Roll is specifically designed for friction fitting between joists and studs at 400mm and 600mm centres to improve the sound insulation of:

- › separating walls and floors;
- › internal walls and floors;
- › timber or metal stud internal partition walls and floors.

Using glass mineral wool as a sound absorbent layer in partitions and floors significantly improves their acoustic performance. In internal and separating walls, glass mineral wool complements plasterboard linings by absorbing airborne sound, and reducing reverberation, and is particularly effective at preventing the hollow sound that can occur in partitions with unfilled cavities.

Acoustic Roll is suitable for use with a range of constructions for Separating Walls and Floors (Timber) registered in the Robust Details Handbook reducing the need for onsite acoustic testing.

Standards and certification

Acoustic Roll has a product declaration made in conformity with the requirements of BS EN 13162 and is manufactured in accordance with ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, ISO 45001 Occupational Health and Safety Management Systems and ISO 9001 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.

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

Acoustic Roll is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria. The product will have a life equivalent to that of the structure in which it is incorporated.

Sustainability

Acoustic 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 are 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 (including glass from windows, bottles and jars).

Acoustic 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, ISO 21930 and EN 15804+A2.

We have received the BES6001 '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 m² of insulation, fewer vehicles on our roads, so less associated CO₂ 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.

Acoustic Roll

Handling and storage

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

The polyethylene packs / shrink-wrapped pallets used for the supply of Acoustic 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. Acoustic 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.

Acoustic 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.

Knauf Insulation Ltd

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