

Solid Lite

i Product information

LITE Thermally Bonded Polyester Insulation

Solid LITE polyester insulation is a versatile, easy to install, flexible, strong, lightweight blanket and is manufactured from recycled PET (polyethylene terephthalate) plastic bottles. Produced in a range of different thickness to provide a myriad of thermal and acoustic performances. This non-allergenic, non-irritant and resilient insulation does not support the spread of flame (Class B/B1/2 fire rating).

Used in roofs, ceilings, partitions and walls and is manufactured in widths to suit standard spacings of studs, ceiling and floor joists.

After its use, SOLID LITE polyester insulation can be easily recycled, making this the perfect ‘cradle to grave’ insulation product.

Environmental

Environmental ozone depleting substances:

Does not contain and did not produce any during production. No VOC’s are used during the production of this material.

Recycling

1 ton of Fabufill’s polyester insulation is manufactured from approximately 38 000 recycled bottles. The plastic bags used for transporting the material are made from virgin LDPE material and is 100% recyclable, Grade 4. The inks used in the packaging are food grade.

SOLID LITE thermally bonded polyester insulation roll, thermal and acoustic insulation installed between trusses, joists, studs or above suspended ceilings, non-combustible to SANS 10177-8 and B/B1/2/H to SANS 428. Compression packed.

Physical properties

	Material Data	Performance
40 mm LITE	Thickness (mm): Minimum 40mm. (Allow up to 30 days for full recovery of loft) Roll dimensions (l x w): 10.0 (l) x 0.60 OR 0.75 OR 1.2 (w) metres (tolerance +25mm and -10mm) Fibre composition: 80% recycled PET (locally sourced) & 20% virgin LMF	R-Value: 0.76 m2.K/W (determined in accordance with ASTM C517) Fire: B/B1/2/H (determined in accordance with SANS 428) Combustibility Data: Combustible at over 750 degrees (determined in accordance with SANS 10177-8)
50 mm LITE	Thickness (mm): Minimum 50mm. (Allow up to 30 days for full recovery of loft) Roll dimensions (l x w): 10.0 (l) x 0.60 OR 0.75 OR 1.2 (w) metres (tolerance +25mm and -10mm) Fibre composition: 80% recycled PET (locally sourced) & 20% virgin LMF	R-Value: 0.82 m2.K/W (determined in accordance with ASTM C517) Fire: B/B1/2/H (determined in accordance with SANS 428) Combustibility Data: Combustible at over 750 de-grees (determined in accordance with SANS10177-8)
75 mm LITE	Thickness (mm): Minimum 75mm. (Allow up to 30 days for full recovery of loft) Roll Dimensions (l x w): 8.0 (l) x 0.60 OR 0.75 OR 1.2 (w) metres (tolerance +25mm and -10mm) Fibre composition: 80% recycled PET (locally sourced) & 20% virgin LMF	R-Value: 1.37 m2.K/W (determined in accordance with ASTM C517) Fire: B/B1/2/H (determined in accordance with SANS 428) Non-Flammable. Will not contribute to the spreading of flame and will self-extinguish when a heat source is removed Combustibility Data: Combustible at over 750 degrees (determined in accordance with SANS 10177-8)
100 mm LITE	Thickness (mm): Minimum 100mm. (Allow up to 30 days for full recovery of loft) Roll dimensions (l x w): 6.0 (l) x 0.60 OR 0.75 OR 1.2 (w) metres (tolerance +25mm and -10mm) Fibre composition: 80% recycled PET (locally sourced) & 20% virgin LMF	R-Value: 1.65 m2 .K/W (determined in accordance with ASTM C517) Fire: B/B1/2/H (determined in accordance with SANS 428)Non-Flammable. Will not contribute to the spreading of flame and will self-extinguish when a heat source is removed Combustibility Data: Combustible at over 750 degrees (determined in accordance with SANS 10177-8)
130 mm LITE	Thickness (mm): Minimum 130mm. (Allow up to 30 days for full recovery of loft) Roll dimensions (l x w): 5.0 (l) x 0.60 OR 0.75 OR 1.2 (w) metres (tolerance +25mm and -10mm) Fibre composition: 80% recycled PET (locally sourced) & 20% virgin LMF	R-Value: 2.06 m2 .K/W (determined in accordance with ASTM C517) Fire: B/B1/2/H (determined in accordance with SANS 428) Non-Flammable. Will not contribute to the spreading of flame and will self-extinguish when a heat source is removed Combustibility Data: Combustible at over 750 de-grees (determined in accordance with SANS 10177-8).011

Solid Lite cont.



Handling & storage

No particular hazards are known. The polyester fibres are not known to cause allergies. With correct use of this product no detrimental effects on health have been recorded.

Transportation: The rolls are compressed into plastic bags and is classified as non-hazardous.

Storage: Rolls to be stored under cover, laid horizontally and stacked no more than 10 units high. Rolls should be kept dry and must not be exposed to a naked flame or any other ignition source.



Fire Performance:

Non-Flammable. Will not contribute to the spreading of flame and will self-extinguish when a heat source is removed.



Other data

Combustibility Data: Combustible at over 750 degrees (determined in accordance with SANS 10177-8).

Durability: Lite does not physically deteriorate over time and does not require any maintenance.

Properties are such that the material will not be damaged during normal handling and installations.

Fungal attack: Lite has good resistance to bacteria, fungi and mildew and fibre-devouring insects will not damage Lite polyester insulation since it is indigestible (tested in accordance with SANS 5484.)

Moisture absorption: 0.78% (SANS 1381-1:2013 allows up to 2%)



Installation guidelines

Installation tools:

LITE polyester insulation can be easily torn or cut with a pair of industrial scissors or shears.

Installation methods:

- Lay loose on ceiling board or suspended between trusses with restraining wires at 300mm intervals.
- The distance between roof trusses, ceiling joists and walls studs should be measured, and the appropriate roll widths used.
- LITE rolls should be installed between the members and the ends of the rolls should be carefully butted or lapped to ensure that the insulation is continuous.
- A 50mm gap should be created around downlighters, recessed lights, flue pipes or any low heat sources.



Acoustic Ceiling Rolls

i Product information

Acoustic Ceiling Rolls are Glass Mineral Wool rolls, designed for use in cold lofts where thermal values need to be consistent and sound needs to be absorbed at ceiling level. Rolls can be cut with ease using a knife blade as the rolls are 1200m wide.

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.

★ Features

- Lightweight quilt for ease of installation
- Economical packs for less storage and handling
- Manufactured with ECOSE® Technology for improved handling and installation.

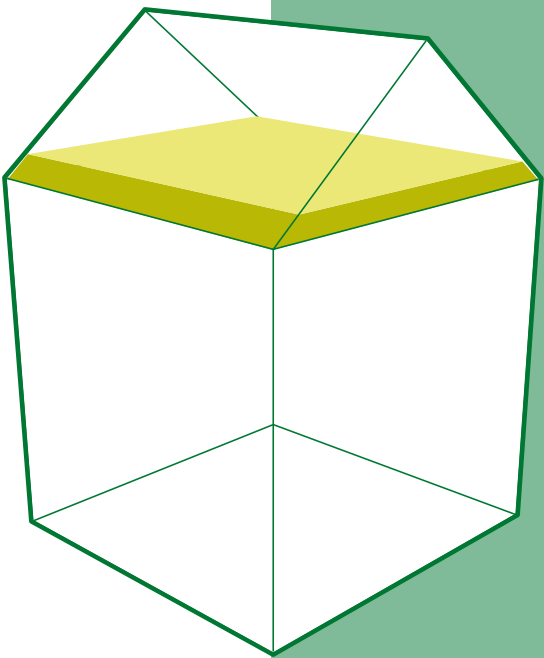
✓ Performance standard

Thermal
R-value: 1.25 to 3.38 m²K/W

Fire Classification:
In accordance with SANS 428:2012: Euroclass A1 to BS EN 13501-1.A / A1 / 1 SANS 10177-5 A - Non Combustible SANS 10177 -10 A1 - No flame spread

Vapour resistivity
Water vapour resistivity: 5.00 MNs/g.m.

🏆 Certifications, Classifications and Industry Standards



⚙ Application

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.

⚙ Specifications

Thickness (mm)	R-value (m²K/W) 	Length (m)	Width (mm)	Area per pack (m²)	NRC	Density kg/m³
135	3.38*	7.50	1200mm (800 + 400mm)	9.00	1.13	12
100	2.50*	10.10	1200mm (800 + 400mm)	12.12	1.04	12

*Products designed to meet the requirements of thermal legislation of South African climate zones
 South African R-values calculated assuming 23°C mean temperature.

🌿 Environmental

Acoustic Ceiling Rolls contain no ozone-depleting substances or greenhouse gases.

Acoustic Ceiling Rolls cont.



Handling & storage

Acoustic Ceiling Rolls are easy to handle and install, being lightweight and easily cut to size, where necessary. Rolls are supplied in recyclable polythene packs (4-LDPE) which 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. They should not be left permanently exposed to the elements.



Other data

Durability:

Odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Standards & certification:

Manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management systems, as certified by TÜV Nord. All our Glass Mineral Wool products have been awarded the DECLARE 'Red List Free' label. Having the 'Red List Free' label means that there are no ingredients in the product that are on the red list - including formaldehyde or phenol.

Vapour resistivity:

Offers negligible resistance to the passage of water vapour and has a vapour resistivity of 5.00MNs/g.m.



ECOSE® Technology is our unique bio-based binder, that is used in the manufacture of all of our Glass Mineral Wool products and the majority of our Rock Mineral Wool products, to bind insulation strands together. ECOSE® Technology contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is 70% less energy-intensive to manufacture than traditional binders, so it is more environmentally-friendly. Products made with ECOSE® Technology generate low levels of dust and VOCs and have been awarded the Eurofins Gold Certificate for Indoor Air Comfort.

KNAUFINSULATION

distributed by Solid.

Acoustic Batt

i Product information

Acoustic Batts are semi-rigid slabs designed for friction-fitting in metal and timber studs, including drywall partitioning. They are also suitable for intermediate floors with cavities such as timber or metal joist constructions.

Made to 600mm widths to suit standard stud centres, there is no need to cut to the correct width, making installation quick and easy. Packs are lightweight and compact, making them easy to carry, helping to prevent damage associated with dragging larger, heavier packs.

★ Features

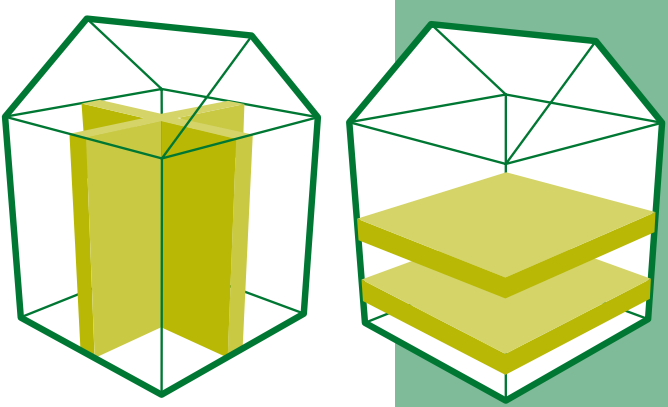
- Excellent sound absorption characteristics improve the acoustic performance of internal walls and floors
- Advanced compression technology provides packs that are compact and easy to carry
- 600mm wide batts allow for fast installation
- Non-combustible A1 Euroclass Reaction to Fire classification
- Manufactured with ECOSE® Technology for improved handling and installation

✓ Performance standard

Fire
Classification: EUROCLASS A1 to BS EN 13501-1

Vapour resistivity 5.00MNs/g.m.
Water vapour resistivity:

🏆 Certifications, Classifications and Industry Standards



⚙ Application

Acoustic Batt is typically used for the acoustic insulation of a wide variety of constructions such as timber and metal stud partitions and internal floors. It can also be used in intermediate floors.

⚙ Specifications

Thickness (mm)	Length (mm)	Width (mm)	Slabs per pack	Area per pack (m²)	NRC	Density kg/m³
100	1200	600	12	8.64	1.04e	12
63	1200	600	16	11.52	0.89e	14
51	1200	600	20	14.40	0.83e	16

All dimensions are nominal
e = estimate

🌿 Environmental

Acoustic Batt represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Acoustic Batt cont.



Handling & storage

Easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Acoustic Batt should not be left permanently exposed to the elements.



Other data

Durability:

Odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Standards:

Acoustic Batt is manufactured in factories that are certified by Bureau Veritas to the following management system standards: EN 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems. These factories also produce materials compliant with the European product standard for insulation materials EN 13162.

Vapour resistivity:

Offers negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00MN/g.m.



with **ECOSE**[®]
TECHNOLOGY

Made with ECOSE Technology®, these products benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

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Acoustic Rolls Ready-Cut – Drywalling

i Product information

Acoustic Rolls are a glass mineral wool insulation roll engineered for internal wall and floor applications, providing excellent sound absorption and noise reduction.

It is non-combustible and achieves the highest possible Euroclass A1 fire reaction classification. Manufactured using the innovative ECOSE® Technology, it features a bio-based binder for enhanced sustainability.

★ Features

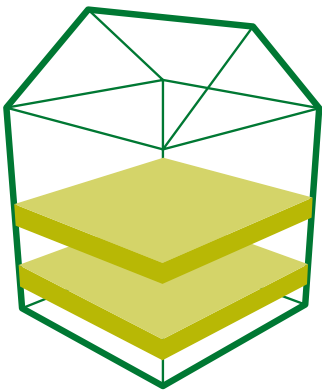
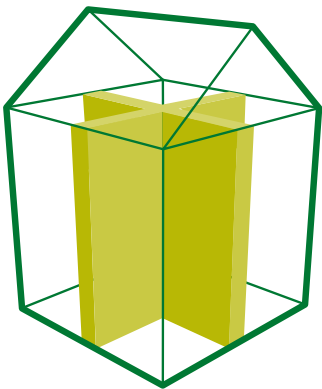
- Exceptional acoustic absorption properties
- Lightweight, and easy to install
- Rolls are designed to fit between studs to close joints, reducing the potential for unwanted gaps and ensuring high levels of sound insulation
- Long roll lengths that are ready-cut allow for quick and easy installation

✓ Performance standard

Fire
Classification: EUROCLASS A1 to BS EN 13501-1

Vapour resistivity
Water vapour resistivity: 5.00MNs/g.m.

🏆 Certifications, Classifications and Industry Standards



⚙ Application

Designed for friction fitting between timber joists and wall studs spaced at 400 mm and 600 mm centres, enhancing the acoustic performance of a range of internal building elements, including:

- Separating walls and floors
- Internal walls and floors
- Timber and metal stud partitions

It is also suitable for friction fitting between resilient timber battens and timber studs in *Robust Detail* separating wall and floor constructions.

Rolls deliver excellent sound absorption, helping to reduce airborne noise while enhancing the thermal efficiency and fire performance of walls, floors, and partitions.

When used as a sound-absorbing layer within partition walls and floor systems, the glass mineral wool significantly improves acoustic performance. In internal wall applications, it works alongside plasterboard linings to absorb airborne sound, minimise reverberation, and reduce the hollow sound commonly associated with uninsulated cavity partitions.

⚙ Specifications

Thickness (mm)	Length (m)	Width (mm)	Area per pack (m²)	NRC	Density kg/m³
100	10.3	1200 (2x600)	12.360	1.04	12
63	15	1200 (2x600)	18	0.89e	14
50	13.5	1200 (2x600)	16.2	0.83	16

24 rolls per pallet
e = estimate

Acoustic Rolls Ready-Cut – Drywalling cont.



Environmental

Contains no ozone-depleting substances or greenhouse gases.



Handling & storage

Easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied in polythene packs (4-LDPE) which are designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Acoustic Roll should not be left permanently exposed to the elements.



Other data

Durability:

Odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Standards:

Manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management systems, as certified by TÜV Nord. All our Glass Mineral Wool products have been awarded the DECLARE 'Red List Free' label. This allows product transparency disclosure that identifies where a product comes from, what it is made of, and where it goes at the end of its life. Having the 'Red List Free' label means that there are no ingredients in the product that are on the red list - including formaldehyde or phenol.

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. Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application.



ECOSE® Technology is our unique bio-based binder, that is used in the manufacture of all of our Glass Mineral Wool products and the majority of our Rock Mineral Wool products, to bind insulation strands together. ECOSE® Technology contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is 70% less energy-intensive to manufacture than traditional binders, so it is more environmentally-friendly. 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.

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