Generic BRE Green Guide Rating A

September 2017

Purlin roll

For use over purlins in Commercial & Industrial buildings

Description

Purlin Roll is a lightweight, flexible, non-combustible yet robust Glass mineral wool roll with foil facing on one side. The reinforced aluminium foil facing is cut flush with the edge of the roll and should be installed face down. The roll is manufactured in 1200mm widths and provides R-values recognised in South Africa.

Thickness (mm)	R-value (m2 K/W)	Length (m)	Width (mm)	Area per roll (m^2)	Rolls (per pallet)
50	1.28	10.00	1200	12.00	18
75	1.92	10.00	1200	12.00	18
100	2.56	10.00	1200	12.00	18

All dimensions are nominal.

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

Move Forward with Confidence

Performance

Thermal

Purlin Roll has a thermal resistance ranging from 1.28 to 2.56 m^2 K/W (0.039 λ)

Fire

Purlin Roll is classified as non-combustible Euroclass A2 to BS EN 13501-1

Acoustic

Purlin Roll is excellent for sound absorption.

Benefits

- Excellent sound absorption
- Lightweight and robust
- High level of thermal performance
- 10m lengths for easy handling
- Bright, washable surface

with ECOSE® TECHNOLOGY

Purlin Roll

Application

Purlin Roll is designed for the thermal and acoustic insulation of roof spaces above purlin roof constructions and can be installed in new or existing buildings typically over straining wires.

Please note: when the mineral wool is compressed between the top of the purlin and the underside of the outer profiled metal cladding as it is fixed to the purlin, it should be acknowledged that thermal and acoustic performance is drastically reduced consequently creating a performance for the whole roof that is significantly less than what is actually designed. Instead, the designer should consider the inclusion of a bracket and rail system above the purlin (such as Ashgrid) the prevents compression and maximised real performance in line with design expectations.

Standards

Purlin Roll is manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Certification

Purlin Roll has been subjected to full scale fire resistance tests to BS 476: Part 22: 1987. Tests included vertical and horizontal joints.

Durability

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

Environmental

Purlin Roll has a generic BRE Green Guide rating of A. Purlin Roll represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Handling and storage

Purlin Roll is easy to handle and install. It is supplied in polyethylene packs which are designed for short term protection only.For longer term protection on site, it is recommended to store the product either indoors,or under cover and off the ground. Product information is mentioned on every pack. Purlin Roll should not be left permanently exposed to the elements.

Knauf Insulation mineral wool products made with ECOSE® Technology 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 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.

Knauf Insulation Ltd
PO Box 10
Stafford Road
St Helens
Merseyside
WA10 3NS
United Kingdom

Customer Service (sales)
Tel: +44 (0)1744 766 767
export.sales@knaufinsulation.com

Technical Support Team
Tel: +44 (0)1744 766 666
technical.uk@knaufinsulation.com

For more information please visit
www.knaufinsulation.co.za

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