KNAUFINSULATION

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ACOUSTIC ROLL

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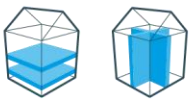
APPLICATIONS



with ECOSE® TECHNOLOGY

DESCRIPTION

Acoustic Roll is designed specifically for the sound insulation of metal stud partitions.

Significantly improves the acoustic performance with minimally affecting the overall mass of the structure. Reduces the hollow sound that can occur in partitions with unfilled cavities.

PERFORMANCE

Acoustic

Acoustic absorption:	From 0.55 to 1.05 NRC

Fire

Classification:	EUROCLASS A1 to BS EN 13501-1

Vapour resistivity

Water vapour resistivity:	5.00MNs/g.m

BENEFITS

- Excellent sound absorption properties
- Lightweight, and easy to install
- Long roll lengths for quick and economic Installation
- Friction fits between studs, ensuring continuity of the absorbent layer with no air gaps

SPECIFICATIONS

Facing	Thickness (mm)	Length (m)	Width (mm)	Area per pack (m^2)	Thermal conductivity (W/mK)	Thermal resistance (m^2K/W)	Density kg /m^3
UNFACED	100	10	1220	12.2	0.039	2.56	16
UNFACED	89	10	1220	12.2	0.039	2.23	16
UNFACED	75	12	1220	14.64	0.039	1.92	16
UNFACED	50	20	1220	24.4	0.039	1.28	16
UNFACED	25	30	1220	36.6	0.039	0.64	16

One roll per pack. All dimensions are nominal.

SOUND ABSORPTION COEFFICIENTS (ASTM C423 - MOUNTING TYPE A AS PER ASTM E795)

Density (kg/m^3)	Thickness (mm)	Absorption Coefficient of one-third octave Band center Frequency Hz						
		125	250	500	1000	2000	4000	NRC
16	100	0.60	0.95	1.05	1.08	1.08	1.06	1.05
	75	0.30	0.80	0.98	0.95	0.92	0.95	0.90
	50	0.19	0.51	0.74	0.89	0.88	0.88	0.80
	25	0.06	0.2	0.39	0.70	0.81	0.64	0.55

CERTIFICATION

challenge. create. care.

ADDITIONAL INFORMATION

Application

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

- separating walls and floors
- internal walls and floors
- metal stud partitions

Using glass mineral wool as a sound absorbent layer in partitions and floors significantly improves their acoustic performance, whilst only adding minimally to the overall mass of the structure. In partitions glass mineral wool complements the plasterboard linings by absorbing airborne sound in the cavity and reducing reverberation, it is particularly effective at preventing the hollow sound that can occur in partitions with unfilled cavities.

Duarbility

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

Standards

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

Certification

Acoustic Rolls are certified under UL 723, DCL Product Conformity, EUCEB for conformity of fibres produced with the requirements of Note Q of the Regulation (EC) No 1272.2008 of EP and EC, EUROFINS Indoor Air Quality Gold, SASO Product Conformity.

Environmental

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

Handling and storage

Acoustic Roll is easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied enclosed in polythene which is 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.

with ECOSE TECHNOLOGY

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 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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