



March 2017

Duct Wrap Roll Ultimate

For HVAC wrapping

Description

Atmosphere™ Duct Wrap Roll Ultimate with ECOSE® Technology is a thermal and acoustical insulation blanket made from highly resilient, inorganic glass mineral wool bonded by ECOSE Technology. It is available with a foil-scrim-kraft (FSK) jacket.

Application

Atmosphere™ Duct Wrap Roll Ultimate is used as external insulation on commercial or residential heating or air conditioning ducts. It is suitable for the exterior of rectangular or round sheet metal ducts and spaces or surfaces where temperature and condensation must be controlled.

Standards

Atmosphere™ Duct Wrap Roll Ultimate is manufactured in accordance with BS EN 13162, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Durability

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

Performance

Thermal

Atmosphere™ Duct Wrap Roll Ultimate has a thermal conductivity of 0.033 W/mK at 25 C

Fire

Atmosphere™ Duct Wrap Roll Ultimate does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E84.

Service Temperature

Atmosphere™ Duct Wrap Roll Ultimate has a maximum service temperature of 230 C. The aluminum facing can be exposed to temperatures up to 80 C.

Benefits

- Low "k" factor significantly reduces heat gain or loss when applied with proper compression
- Flexible and Lightweight
- Excellent acoustical properties
- Energy conservation, which lowers operating costs
- Allow faster installation, lower labor costs
- Sound reduction through the duct wall
- Assured condensation control when installed at proper thickness using FSK or PSK facings

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Certification

Atmosphere™ Duct Wrap Roll Ultimate 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

Atmosphere™ Duct Wrap Roll Ultimate represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Indoor Air Quality

The new Atmosphere line from Knauf Insulation aims to offer a healthier series of air handling products for improved indoor air quality. Using ECOSE technology, it is the only such insulation available that's free of both formaldehyde and Decabromodiphenyl ether (decaBDE) and the only insulation to received the coveted Eurofins Indoor Air Quality Gold Standard.

Water Vapour Sorption

Atmosphere™ Duct Wrap Roll Ultimate (FSK) have a maximum water vapor permeance of 0.02 perms as per ASTM E96, Procedure A.

Handling and storage

Atmosphere™ Duct Wrap Roll Ultimate 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. Atmosphere™ Duct Wrap Roll Ultimate should not be left permanently exposed to the elements.

Facing	Thickness	Length	Width	Area per pack	Thermal Conductivity	R Value	Density	No. Rolls
	(mm)	(m)	(mm)	(m ²)	(W/m.K)	(m ² .K/W)	(kg/m ³)	in pack
FSK	50	8	1200	9.60	0.033	1.52	32	1
FSK	25	15	1200	18.00	0.033	0.79	32	1

All dimensions are nominal

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.

