



March 2017

## Duct Wrap Slab

### For HVAC wrapping

#### Description

Atmosphere™ Duct Wrap Slab 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, and Aluglass jacket.

#### Application

Atmosphere™ Duct Wrap Slab with ECOSE Technology is a versatile product for thermal and acoustical applications such as: heating and air conditioning ducts, power and process equipment, boiler and stack installations.

#### Standards

Atmosphere™ Duct Wrap Slabs 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 Slabs 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 has a thermal conductivity of 0.035 W/mK at 25 C

#### Fire

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

#### Service Temperature

Atmosphere™ Duct Wrap Roll 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

## Duct Wrap Slab

### Certification

Atmosphere™ Duct Wrap Slabs 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 Slab 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 Slab (FSK) have a maximum water vapor permeance of 0.02 perms as per ASTM E96, Procedure A. Atmosphere™ Duct Wrap Slab (Aluglass) have a maximum water vapor permeance of 0 perms as per ASTM E96, Procedure A.

### Aluglass – Zero Water Vapour Permeability

Knauf Insulation's glasswool products with factory applied Aluglass facing are an ideal substitute for conventional insulation barriers to deter moisture. With the Aluglass's zero water permeability, water vapor cannot permeate through, therefore eliminating the need for additional applications of vapor barriers.

### Handling and storage

Atmosphere™ Duct Wrap Slab 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 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 <sup>2</sup> )	(W/m.K)	(m <sup>2</sup> .K/W)	(kg/m <sup>3</sup> )	in pack
FSK	50	1.20	1000	7.20	0.031	1.61	48	6
ALUGLASS	50	1.20	1000	7.20	0.031	1.61	48	6
FSK	25	1.20	1000	14.40	0.031	0.81	48	12
ALUGLASS	25	1.20	1000	14.40	0.031	0.81	48	12

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.

