

Lancaster Insulation 20mm Duct Wrap

Technical Data Sheet

Issue Number: 1



PRODUCT

Lancaster Insulation Duct Wrap has been specifically designed for around pipes, ducts and vessels in which a layer of thermal and acoustic protection is required.

Lancaster Insulation Duct Wrap is mainly used within H&V applications such as warm air extraction and air conditioning ducts. This range of products is suitable for temperature ranges up to 230°C.

INSTALLATION GUIDELINES

Dependant on the site requirement or site specific detailing.

In general, Lancaster Insulation Duct Wrap is cut to size to fit around pipes, ducts or vessels and with all joints closely butted together. All joints must be sealed with a foil tape to maintain the vapour barrier.



Lancaster Insulation Duct Wrap

FEATURE	BENEFIT
Reaction to Fire A1, according to BS EN 13501-1	Deemed non-combustible
Supplied in a roll	Can be fitted on the majority of pipes, ducts or vessels
Foil facing	Provides an effective vapour barrier and prevents fibre migration
Standard product can be cut to size on site	Flexibility to suit site needs

Physical Properties

Product Name	Lancaster Insulation Duct Wrap
Standard	BS EN 14303 Thermal insulation products for building equipment and industrial installations- Factory made mineral wool (MW) products.
Description	Glass mineral wool - bonded with a thermosetting resin, flexible, for thermal and sound insulation.
Surface Facing	Aluminium Foil Faced
Service Temperature	Can be used to provide thermal and acoustic insulation to pipes, ducts and equipment operating at temperatures in the range 0°C to 230°C. The outer facing temperature should not exceed 80°C. At temperatures below ambient, the foil facing must be continued onto the pipe or duct surface to maintain the vapour barrier.

Product Performance	Technical Characteristics	Test Method	Units	Value or Statement				
	Thickness d	BS EN ISO 29466	mm	20				
	Length l	BS EN ISO 29465	mm	18000				
	Width b	BS EN ISO 29465	mm	1200				
	Density D	BS EN 1602	kg/m³	32				
				10°C	50°C	100°C	150°C	200°C
	Thermal Conductivity (10°C) λ_D	BS EN 12667 BS EN 12939	W/(m.K)	0,032	0,035	0,043	0,051	0,060
	Thermal Resistance R_D	BS EN 12667 BS EN 12939	(m².K)/W	0,600	0,550	0,450	0,350	0,300
	Fire Resistance Class	BS EN 13501-1	Euroclass	A1				
	Maximum Service Temperature /	BS EN 14706	°c	230				
Short Term Water Absorption / - WS	BS EN ISO 29767	kg/m³	<1					
Service Temperature								
Packing	Pieces per pack			1				
	(m²/pack)			21.6				
Storage	Keep dry during storage and delivery. Products should be stored away from the elements until ready for installation.							
	Protect from water, physical damage and direct flame sources.							

Storage and Handling

- Keep dry during storage and delivery
- Products should be stored away from the elements until ready for installation
- Protect from water, physical damage and direct flame sources

Installation

Referred to on page 1.

Operation

The product is intended to be static post installation. There is no operator involvement in its use.

Maintenance

The product's intended use and design, along with its often-inaccessible location post construction, means there are no maintenance requirements.

Health & Safety

- Dry working by cutting or handling non-encapsulated products may release fibre dust
- Use suitable PPE for site hazards
- Where possible use on-tool dust extraction with HEPA filter
- "Machine Made Mineral Fibre" the primary material has workplace exposure limits in HSE EH40

Packaging & Product Disposal

- Pallets can be readily re-used
- Pallet wrap / covers should be placed in an appropriate waste stream
- The product remains in the construction until refurbishment or demolition as such, the project lead should apply the contemporary national and local regulations for waste.

