



## Sonic Liner

Glasswool: a flexible internal lining for HVAC ducts





**Sonic Liner** is a black woven glass cloth faced Glasswool blanket with excellent acoustic insulation properties.

## TECHNICAL DATA SHEET



**ENERGY SAVING**



**NON-COMBUSTIBLE**



**THERMAL COMFORT**



**SOUND INSULATION & ABSORPTION**

### DESCRIPTION

Sonic Liner is a flexible Glasswool insulation blanket faced with an acoustically permeable black woven glass cloth on the air stream surface. A 35 mm overlapping flange of the facing material is provided on both sides to enable effective sealing. It provides outstanding acoustical and thermal performance with low air friction.

### QUALITY MANAGEMENT SYSTEM

Isover products are manufactured according to ISO 9001:2015.

### ENVIRONMENTAL SUSTAINABILITY

Isover products are manufactured according to ISO 14001:2015.

Less material, less energy and less emissions

- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP).

### FEATURES & BENEFITS

- Energy saving
- Excellent thermal and acoustic properties
- Maintenance free
- Minimal air friction while optimising free duct area
- Safe application and use
- The air stream will not erode or release fibres into the air stream under normal operating conditions.

### FIRE PROPERTIES

- Non-combustible – tested to SANS 10177 Part 5
- Class 1 fire index rating – tested to SANS 10177 Part 3
- Tested to ASTM E-84
- Flame Spread Index: 20
- Smoke Development Index: 10.

### THERMAL PROPERTIES

Significantly reduces heat gain and loss.

### ACOUSTIC PROPERTIES

Offers exceptional acoustic properties and enhances indoor environmental quality by absorption of mechanical noise generated by air conditioning equipment. Sonic Liner reduces the sound transmission along a duct.

### APPLICATIONS

Specially designed as an internal acoustical insulation liner for sheet metal ducts in heating, ventilation and air conditioning systems operating at temperatures of up to 120 °C and air velocities up to 20 m/s.

### PHYSICAL PROPERTIES

R-value (m <sup>2</sup> .K/W)	Thickness (mm)	Length (mm)	Width (mm)	Density (kg/m <sup>3</sup> )	K-value (W/m.K)	NRC
0.69	25	10 000	1 200	24	0.036	0.85
1.32	50	10 000	1 200	18	0.038	-

#### Typical values

### DURABILITY

- Odourless, inert and fully compatible with all standard building materials and components
- Will not promote corrosion of steel, copper or aluminium
- Will not sustain vermin
- Will not breed or promote fungi, mould or bacteria
- Non-hygroscopic
- Prevents condensation on cold metal duct surfaces extending the life of the system.

### ARCHITECTURAL SPECIFICATION

Install (25/50) mm flexible non-combustible lightweight “Sonic Liner” as an internal lining in (heating/

ventilation/air conditioning) duct system with the black woven glass cloth facing the air stream surface. Install in accordance with the manufacturer’s detail and specification.

### HANDLING & STORAGE

Store product under cover and in dry conditions. Store flat. Handle with care, especially on the edges and corners, which can be damaged if subject to sharp or heavy impact. Do not apply excessive pressure, for example by standing or sitting on the product, as permanent damage may be caused.



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