

## ECOWOOL CLASSIC VENTLINER

ECOWOOL CLASSIC VENTLINER is a highly resilient blanket type thermal and acoustical glass mineral wool made from more than 80% of recycled glass. It is designed to meet specific requirements in the HVAC equipment industry especially for the internal duct lining and other OEM applications. The glass mineral wool insulation also enhances indoor air quality by absorbing noise within sheet metal ducts and contributes to thermal comfort by reducing heat loss or gain through duct walls. Effective medium and high frequency sound absorption can be achieved by using 25mm thick insulation.

## APPLICATION

- HVAC equipment
- Recommended as thermal insulation for the interior or HVAC system or other spaces or surfaces where temperature control is required
- Fibre migration. Superior compared to perforated foil and glass tissue facing. ZERO fibre migration.
- Other equipment

## PERFORMANCE

### Fire Hazard Properties

Inherently non-combustible and doesn't fuel fire or propagate flames therefore, the ECOWOOL Classic Ventliner won't burn if exposed to fire. Tested in accordance with:

- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame
- Bomba Class 'O'

### Assured Thermal Performance

Greatly reduces heat gains or losses through the duct walls so that energy costs are reduced and conditioned air reaches the outlet at the required temperature. Tested and complies with ASTM C518 at 20°C mean temperature.

Type	Density (kg/m <sup>3</sup> )	K- Value (W/m K)	R- Value (m <sup>2</sup> K/W)
EWBL 0.75	32	0.0327	0.75
EWBL 1.50	32	0.0327	1.50

### Acoustical Performance

Commercial HVAC (Heating, Ventilation and Air Conditioning) systems are typically driven by large central motors that push conditioned air to each room of a building through a complex network of metal ducts. The insulation reduces noise from the HVAC motors travelling through the ducts into the rooms while its thermal performance helps maintain a consistent air temperature throughout the long network of ducts. Tested and complies with ASTM C423, Type 'A' mounting. Please refer to the table overleaf for more information on the acoustic performance

Type	Thickness (mm)	Center Frequency (Hz)						
		125	250	500	1000	2000	4000	NRC
EWBL 0.75	25	0.19	0.35	0.71	0.86	0.94	0.97	0.70
EWBL 1.50	50	0.38	0.72	1.11	1.07	1.04	1.07	1.00



### Factory Laminated Facing

Laminated with a high end durable woven glass fabric. The woven glass fabric is an inorganic woven glass membrane which will not rot, is lightweight and will conform to irregular surfaces. The tensile strength of glass fabrics is greater than cotton fabric or jute.

### Insulation Properties:

- Excellent thermal efficiency
- Excellent acoustical performance
- Easy to fabricate
- Easy to handle and install

### Surface Burning Characteristic

Meets the surface burning characteristic and limited combustibility of the following standards (plain/unfaced):

- ASTM E84
- NFPA 90A and NFPA 90B

### Early Fire Hazards

Does not ignite, evolve heat, spread flame or develop smoke when tested in accordance with Australia Standard 1530 : Part 3-1982 (plain/unfaced)

## SUSTAINABILITY

PGF Insulation is committed to providing environmentally sustainable products. ECOWOOL Classic Ventliner is free from CFCs, HCFCs and any other material, with ozone depletion potential in their manufacture or content.

Made from nearly 80% recycled glass and locally sourced raw materials, the product is perfectly in tune with sustainability and environmental concerns.



### FEATURES AND BENEFITS

**Better fibre network.** Fine, longer and evenly distributed fibre network helps in creating better tensile strength allowing the insulation to demonstrate superior durability. Due to unique fiber structure in can be easily bend over different shapes and parts of HVAC systems.

**Resist damage.** The specially factory laminated surface enhances the ability of the insulation to resist damage from typical in-shop handling, fabrication, and jobsite shipment. If necessary, the surface may be cleaned using standard industry-recognised dry methods.

**Optimal fibre diameter.** Optimal fibre diameter produces more air chamber which enables the insulation to provide a better and enhanced performance.

**Less dusty and less itchy.** Specifically engineered to produce a comfortable and less dusty insulation compared to conventional glass wool. The insulation creates a pleasant work experience by reducing the tingling feeling during installation.

**Exceptional sound-absorbing properties.** ECOWOOL Classic Ventliner reduces the transmission of HVAC noises such as air turbulence, popping and cracking.

**Sustainable product.** PGF Insulation uses no ozone depleting products (ODP) in manufacture.

**Working temperature limitations.** Operating temperature up to 121°C for the woven glass fabric faced product. At excessive temperatures, limited migration of binder may occur in the insulation in contact with the surface. This in no way impairs the performance of the insulation.

**Water vapor absorption.** Absorbs less than 5% by weight. Tested in accordance with ASTM C 1104/C 1104M-13a.

**Odor emission.** Does not emit any unpleasant odor. Tested in accordance with ASTM C 1304.

**Corrosiveness.** Chemically inert and will not cause or accelerate corrosion of steel, copper or aluminum. Hydrogen ion concentration at pH 9. Tested in accordance with ASTM C 665-12.

**Mould growth.** Does not encourage growth of mould, fungus, bacteria or rodents. Tested in accordance with ASTM C 1338-14.

**Alkalinity.** pH 9.

### SPECIFICATION STATEMENT

All ducts are to be insulated on the internal GI surface with \_\_\_\_\_mm (25mm, 50mm) thickness **ECOWOOL BROWNIE VENTLINER EWBL** \_\_\_\_\_ (\_\_\_\_kg/m<sup>3</sup>) glass mineral wool insulation. Thermal conductivity 'K-Value' of the insulation shall be K\_\_\_\_\_. Thermal resistance "R-Value" of the insulation shall be R \_\_\_\_\_. The product shall be certified to MS1020 : 2010 and shall be non-combustible, tested and comply with BS 476 : Part 4 :1970. Noise Reduction Coefficient (NRC) of the insulation shall be \_\_\_\_\_.

### WARRANTY

This product is covered by a **10 years** product warranty.

For full details, please go to [www.ecowool.com.my](http://www.ecowool.com.my)  
**Terms & Conditions apply**

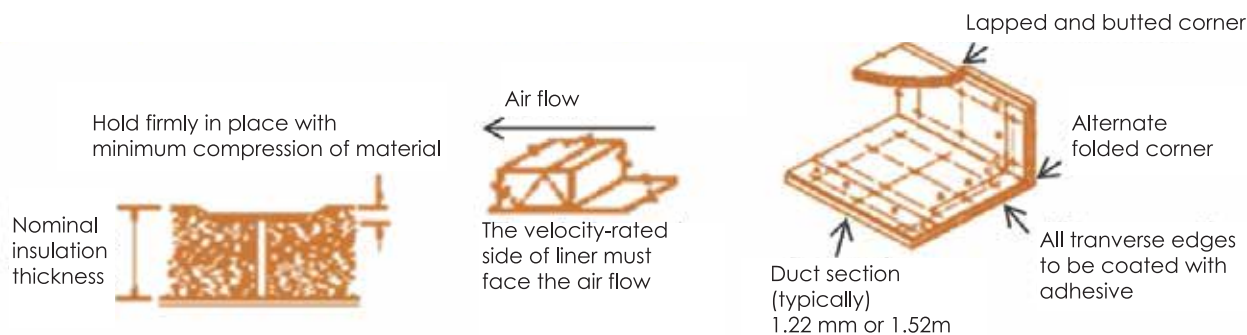


### PRODUCT AVAILABILITY

ECOWOOL Classic Ventliner available in faced with woven glass fabric.

Type	Thickness (mm)	Width (m)	Length (m)
EWBL 0.75	25	1.22	15
EWBL 1.50	50	1.22	7.5

\*\* Ecowool Classic Ventliner is also available in board form. Please contact our sales representative for more information.



Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of the glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information. Version of April 2020.



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