

ETERCORE

Product Information

ETERCORE is a low density matrix of fibres spun from molten volcanic rock and combined in board form with selected fillers and bonding agents. ETERCORE is easily worked and its low thermal conductivity and shrinkage makes it an ideal high temperature insulation material in passive fire protection systems.

1. Product composition

ETERCORE mineral wool sheets consist of the following:

- Slag
- Basalt
- Selected reinforcing fibres
- Functional additives

2. Production method

ETERCORE sheets are manufactured at high temperature of 1600c. At this high temperature the molten material flows from the bottom of the cupola down through the fiberization system. At the same time as fiberization, the bind is sprayed out from the middle of the system to the surface of the fibres, binding the matrix together. The fibre product is then sent down the collection belt and cured in the curing oven. In this process the bind is hardened and the product develops its shape.

ETERCORE is manufactured under a quality management system. No ozone depletion products are used during the manufacturing process.

3. Dimensions and tolerances

Standard thickness: 30mm, 60mm

Length: 1200 mm

Width: 600 mm

4. Weight

Thickness	Weight
30 mm	Approx 4.1 kg/m ²

5. Colour

ETERCORE has a yellow green colour in appearance.

TE-PR-ET-PI-110906

6. Technical properties (average values)

Density (nominal)	: 150kg/m ³
Thermal conductivity (w/m Oc)	: 0.035 + 0.00018tm
Non-combustible	: Class A (According to GB5464)
Working Temp. (max.) Celsius	: 600
Acid coefficient	: >1.5 (SiO ₂ + Al ₂ O ₃ / CaO + MgO)
Moisture content	: < 5 (According to GB10299)
Density tolerance	: 10 (According to GB11839)
Binder content (%)	: <3 (According to GB11839)

7. Advantages

- Etercore is used in fire rated bulkhead systems for fire ratings of up to -/120/120 when coated with Intumescent coatings.
- Etercore can achieve up to -/120/120 in fire walls as an insulation material within timber framed Eterpan walls.
- Easy workability.
- Low thermal conductivity
- Low shrinkage.

8. Working guidelines

Cutting:

- Measure opening size. Cut Etercore approx 5mm oversize in each direction.
- Cut on flat stable surface with extendable utility knife.

At all times, cutting should be carried out in well ventilated spaces. Installers should take precautions and wear protective and respiratory gear at all times.

Fitting:

- Friction fit Etercore between framing members.

Health and safety aspects:

While the sheets are being processed, fibres can be released which can irritate airways, skin and eyes. It is recommended that a minimum P2 dust mask, safety goggles and overalls be worn during installation of Etercore mineral wool.

10. Handling

The sheets are packed on pallets. They must be kept dry during transport. The sheets must be horizontally stacked on a flat surface. The sheets must be stored in a dry ventilated space. The sheets cannot be stored outside and must be kept away from humidity and rain.

11. Guarantee

The guarantee and the guarantee conditions are available on request from PBS Distributors,

TE-PR-ET-PI-110906