



TECHNICAL DATA SHEET

FR133 - JUMBOLENE® FIRE RATED ROOF INSULATION

Product Description

JUMBOLENE® Fire Rated Roof Insulation is a superior fire performance, reflective insulation consisting of a double layer of reinforced aluminum foil bonded to a 3mm core of 100% closed cell polyethylene foam.

JUMBOLENE® FR133 is a 3 in 1 reflective foil insulation solution combining the benefits of reflective insulation, a conduction barrier and a moisture barrier.

JUMBOLENE® FR133 reflects 97% of radiant heat and provides high resistance to heat conduction making it the ideal insulation product for both hot and cold seasons.

JUMBOLENE® Fire Rated Roof Insulation is suitable for use in roof systems where a fire risk assessment is required; as well in buildings where fire risk is high.

Features & Benefits

Fire Rated: Good fire performance with class B fire rating.

Excellent Thermal Insulation: Reflects 97% of radiant heat and renders excellent thermal protection in cold weather.

Effective moisture barrier: Water proof; Controls damage from condensation.

Good Acoustic Insulation properties: Effective barrier against impact noise from rain

Durable: Superior tensile strength. Does not collapse, delaminate or break, thus maintaining its thermal properties over time.

Light, safe to handle and easy to install: Does not contain any synthetic fibres or other substances toxic to humans.

Mould, mildew, fungus and bacteria Rated: Inert; Does not provide an environment conducive for microbial growth.

Environmentally friendly: 100% recyclable. Does not contain substances harmful to humans or the environment.

Thermal Data

| Air Space | R-Value | Rsi-Value | Emissivity |
|---------------------|--------------------------------|------------------------|------------|
| 25 - 40mm (Nominal) | 14.022ft ² .F.h/Btu | 2.47m ² K/W | 0.03 |

Physical Properties

| Item | Test Method | Value |
|-------------------------|---|--|
| Fire Rating | ASTM E84-15 | Class B |
| Flame Spread Index | ASTM E84-15 | 35 |
| Smoke Developed Index | ASTM E84-15 | 105 |
| Thermal Conductivity | ASTM D3575, Suffix V | 0.0293 (W/m °K) (0.37 BTU-in/hr-ft) |
| Tensile Strength | ASTM D3575, Suffix G | 54.0 kPa |
| Tensile Strength @ Peak | ASTM D3575, Suffix T | 300 kPa (40 psi) |
| Compression Set | ASTM D3575, Suffix B, (50% compression) | < 15% |
| Compression Creep | (1000 hrs @ 23°C) | < 5% @ 17.5 kPa (2.5 psi) |
| Compressive Deflection | ASTM D3575, Suffix D @ 10% @ 25% @ 50% | 70 kPa (10 psi) 80 kPa (10 psi) 150 kPa (10 psi) |

**The product has been tested for compliance with applicable requirements of ASTM E84-15; TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (UL 723, UBC 8-1, NFPA 255)*

**The product is rated Class A in cases where a fire fighting sprinkler system has been installed (NFPA 255)*

Standards & Approval

JUMBOLENE® Fire Rated Roof Insulation manufacturing process has met the highest international standards in quality; the **ISO 9001: 2015** Quality Management System certification.

JUMBOLENE® Fire Rated Roof Insulation has met the Kenya Bureau of Standards approval for quality under the Kenya Standards Act.



Standard Order Size

Product Code: FR 133

Roll size: 1m x 50m