



## TECHNICAL DATA SHEET

### JUMBOLENE® HEAVY DUTY ROOF INSULATION - RF155

#### Product Description

**JUMBOLENE®** Heavy Duty Roof Insulation is a double sided reflective foil insulation, with a closed cell polyethylene foam core that provides a radiant barrier, thermal insulation and a moisture barrier.

**JUMBOLENE®** Heavy Duty Roof Insulation is a cost-effective insulation that is suitable for use in all roof systems where temperature variations are high, to increase the thermal comfort of building occupants. It provides a high R value at a comparatively low cost.

**JUMBOLENE®** Heavy Duty Roof Insulation is an excellent barrier to radiant heat, enhancing the energy performance and thermal comfort of a building, while providing a physical layer of protection against water and air infiltration

**JUMBOLENE®** Heavy Duty Roof Insulation protects your roof space from heat build up due to radiant heat penetration by acting as a heat barrier to protect all services within the roof space from drying out, cracking and degradation due to UV and solar heat gain.

#### Features & Benefits

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

**Cost effective:** affordable solution that reduces heating and cooling costs to achieve energy efficiency

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

**Fire retardant:** Self extinguishing

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

**Durable:** Does not collapse, de-laminate 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 resistant:** Inert; Does not provide an environment conducive for microbial growth.

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

#### Physical Properties

Item	Test Method	Value
Thermal Conductivity	ASTM D3575, Suffix V	0.0293 (W/m °K) (0.37 Btu-in/hr-ft)
Tensile Strength @ Peak	ASTM D3575, Suffix T	300 kPa (40 psi)
Tensile Strength	ASTM D3575, Suffix G	1.8 N/mm (10 lb/in)
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)
Compression Set	ASTM D3575, Suffix B, (50% compression)	< 15%
Water Absorption	ASTM D3575, Suffix L	0.02mg/cm <sup>2</sup> / 24hrs
Tensile Elongation	ASTM D3575, Suffix T	55%
Fire Performance		Fire Retardant

#### Thermal Data

Air Space	R-Value	Rsi-Value	Emissivity
25 - 40mm (Nominal)	20.51ft <sup>2</sup> .F.h/Btu	3.61m <sup>2</sup> K/W	0.03

#### Standards & Approval

**JUMBOLENE®** Heavy Duty Roof Insulation manufacturing process has met the highest international standards in quality; the **ISO 9001: 2008** Quality Management System certification.

**JUMBOLENE®** Heavy Duty Roof Insulation has met the Kenya Bureau of Standards approval for quality under the Kenya Standards Act.



#### Standard Order Size

**Product Code:** RF 155

**Standard Roll Size:** 1m x 50m