

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 ² / 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 ² .F.h/Btu	3.61m ² 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