



TECHNICAL DATA SHEET

JUMBOLENE® SUPER HEAVY DUTY ROOF INSULATION - RF210

Product Description

JUMBOLENE® Super Heavy Duty Roof Insulation is industrial grade heavy duty double-sided reflective foil insulation, with a closed cell polyethylene foam core which provides an effective thermal, vapor and noise barrier. It is specially designed to reduce heat gain and heat loss, thus achieving energy efficiency while keeping energy costs low and interior spaces more comfortable.

JUMBOLENE® Super Heavy Duty Roof Insulation offers superior thermal performance to conventional insulation, and reduces thermal bridging and conductivity between building elements. It addresses all forms of heat gain and heat loss; radiant heat conductive heat and convective heat.

JUMBOLENE® Super Heavy Duty Roof Insulation delivers the added strength and durability needed in commercial construction.

JUMBOLENE® Super Heavy Duty Roof Insulation offers an effective barrier against impact noise from rain.

Features & Benefits

Excellent Thermal Insulation: Superior resistance to heat flow. Reflects 97.1% of radiant heat and renders excellent thermal protection in cold weather. Reduces energy consumption and associated costs (cooling and heating costs).

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

Effective moisture barrier: Water proof; Controls damage from condensation. Thermal performance is not affected by humidity.

Fire retardant: Self extinguishing

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.

Uses

Metal and steel buildings; warehouses; manufacturing facilities; post frame construction; cool room storage facilities; pharmaceutical facilities; other temperature sensitive storage areas.

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	ASTM D3575, Suffix G	1.8 N/mm (10 lb/in)
Compressive Deflection	ASTM D3575, Suffix D @ 10% @ 25% @ 50%	70 kPa (10 psi) 80 kPa (10 psi) 150 kPa (10 psi)
Compression Creep	(1000 hrs @ 23°C)	< 5% @ 17.5 kPa (2.5 psi)
Compression Set	ASTM D3575, Suffix B, (50% compression)	< 15%
Tensile Strength @ Peak	ASTM D3575, Suffix T	300 kPa (40 psi)
Tensile Elongation	ASTM D3575, Suffix T	55%
Fire Performance		Fire Retardant

Thermal Data

Air Space	R-Value	Rsi-Value	Emissivity
25 - 40mm (Nominal)	27.401ft ² .F.h/Btu	4.83m ² K/W	0.03

Standards & Approval

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

JUMBOLENE® Super 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 210

Standard roll size: 1m x 50m