



TECHNICAL DATA SHEET

JUMBOLENE® WALL INSULATION

Product Description

JUMBOLENE® Wall Insulation is a semi-rigid insulation batt consisting of fire retardant low density 100% closed cell polyethylene foam.

JUMBOLENE® Wall Insulation reflective batts offer the benefit of both, bulk insulation and reflective insulation as well as excellent acoustic insulation.

JUMBOLENE® Wall Insulation batts have an ideal strength to weight ratio, unmatched versatility and ensure high performance and exceptional energy efficiency in a wide range of applications. It is ideal for all external wall systems including concrete, metal, brick, stone and timber wall applications, internal cavity walls, pre-fabricated structures, soundproofing cabins, cold stores and cool rooms.

Features & Benefits

Excellent thermal insulation: Low thermal conductivity of 0.0293 (W/m²·K) (0.37 BTU-in/hr-ft)

Excellent acoustic insulation: Contains inherent qualities that provide effective soundproofing as well as sound absorption

Effective moisture barrier: Closed cell structure makes it impermeable to moisture

Fire retardant: Self extinguishing

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.

Thermal Data

Code	R-Value	Rsi-Value	U-Value
IB 50	10.56 ft ² ·F·h/Btu	1.86 m ² ·K/W	0.538 W/m ² ·K
IB 75	15.39 ft ² ·F·h/Btu	2.71 m ² ·K/W	0.369 W/m ² ·K

Physical Properties

Item	Test Method	Value
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)
Thermal Conductivity	ASTM D3575, Suffix V	0.0293 (W/m²·K) (0.37 BTU-in/hr-ft)
Water Absorption	ASTM D3575, Suffix L	0.02mg/cm ² / 24hrs
Tensile Strength @ Peak	ASTM D3575, Suffix T	300 kPa (40 psi)
Tensile Elongation	ASTM D3575, Suffix T	55%
Tensile Strength	ASTM D3575, Suffix G	1.8 N/mm (10 lb/in)
Fire Performance		Flame Retardant

Standards & Approval

JUMBOLENE® Wall Insulation manufacturing process has met the highest international standards in quality; the **ISO 9001:2008** Quality Management System Certification.

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



When Specifying & Ordering

JUMBOLENE® Wall Insulation – **IB 50 ; IB 75**

JUMBOLENE® Wall Insulation is available in batt size: **1m by 2m**