

Get advice.
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VERSATILITY
Get it.

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www.isotherm.co.za

www.brits.co.za



Installation guide for
hollow wall structures.


ISOTHERM
Thermal Insulation

Manufactured by:

brits
nonwoven



AGRÉMENT
SOUTH AFRICA
innovative construction product assessments


ISOTHERM
Thermal Insulation

Get results.

Get comfort

ISOTHERM keeps you and your family warm in winter and cool in summer.

Get safety

ISOTHERM is made from polyester and is 100% people – friendly. It is safe and easy to install; no gloves or breathing apparatus required.

Get quality

ISOTHERM is manufactured by Brits Nonwoven and is an Agrément certified product. **ISOTHERM** is economical and the best thermal insulation product to use in terms of guaranteed quality.

Get comfort, quality and safety with ISOTHERM THERMAL INSULATION.

Get green

Made from recycled PET bottles, **ISOTHERM** helps to fight unemployment and sustain the ecology and economy of the country.

Depending on the thickness of **ISOTHERM** installed and the climatic zone, **ISOTHERM's** performance is as follows:

In summer

You get maximum temperature reduction of up to 7°C when **ISOTHERM** insulated ceilings are correctly installed.

In winter

You get a reduced heating energy requirement of between 40% and 70% in a standard house.

Get the facts and benefits

Non-toxic

No chemical additives, no odour or emissions of volatile organic compounds.

Fire performance

ISOTHERM complies with SANS 10400 The Application of the National Building Regulations, as an insulation material.

Tested in accordance with: SANS 428 : Fire Performance Classification B/B 1/2.

ASTM – E 84 : Spread of flame: nil.

BS 5803 part 4 : Does not smoulder.

Test reports available on request.

ISOTHERM may be used as specified for all types of buildings

Maintenance-free

ISOTHERM is resistant to condensation and associated fungi and bacteria. **ISOTHERM** retains loft and does not degrade over time.

Eco-friendly

ISOTHERM is made using polymer from recycled PET bottles and is completely recyclable.

Energy-saving

ISOTHERM saves energy.

In less than 3 years **ISOTHERM** can pay for itself by savings on electricity usage.

subject to the provisos listed in Part T of Section 3 of SANS 10400.*

THICKNESS	DENSITY	REDUCTION IN HEAT FLOW (Downwards)	THERMAL RESISTANCE 'R' VALUE	NOISE REDUCTION COEFFICIENT	AVAILABLE SIZES LENGTH	AVAILABLE SIZES WIDTH
40mm	10kg/m ³	69%	0.88	N/A	10m	750 / 1200mm
50mm	10kg/m ³	72%	1.10	0.6	10m	750 / 1200mm
75mm	10kg/m ³	78%	1.65	0.75	8m	750 / 1200mm
100mm	10kg/m ³	83%	2.20 <small>(as tested by SABS)</small>	0.75	6m <small>(as tested by SABS)</small>	750 / 1200mm

*SANS 10400 – 1990. The application of the National Building Regulations.

Exterior Steel Frame Walling



ISOTHERM is safe and easy to install, and when used in light steel frame buildings it provides insulation that is three times better than double leaf brick walls.

It contains no corrosive additives or resins that may adversely affect steel structures and piping



Get prepared

ISOTHERM is supplied in roll form; allowing you to cut to your customised size and shape. This is easily done by tearing or cutting with a pair of industrial scissors or shears.



Cut the **ISOTHERM** to size or slightly bigger than the frame size depending on the thickness of product used.



A minimum of 50mm is recommended. Variable widths are available.

Get it done

Position **ISOTHERM** correctly. Place in the vertical steel stud C profile frame positioned in closely to the cladding and ensure a snug fit.



Ensure continuous insulation. Carefully butt the ends of the rolls or lap to ensure maximum effectiveness.

Ensure that the **ISOTHERM** is positioned behind cables, conduits and plug points, leaving them exposed.



Do not waste off-cuts. Use them wisely by filling in gaps, crevices and corners.