

Get advice.  
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**VERSATILITY**  
Get it.



**Installation guide for  
hollow wall structures.**



**ISOTHERM**  
*Thermal Insulation*



SANS  
1381:1



**brits**  
nonwoven



**ISOTHERM**  
*Thermal Insulation*

# Get results.

# Get comfort, quality and safety with ISOTHERM THERMAL INSULATION.

## 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 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	Thermal Resistance "R" Value	Total R-value (incl ceiling and roof materials)	Noise Reduction Coefficient (NRC)	Available Sizes (length)	Available Sizes (width)	Climatic Zone
40mm (Budget)	7.5kg/m <sup>3</sup>	Not yet tested	-	-	-	10m	750 / 120cm	-
40mm	10kg/m <sup>3</sup>	69%	0.72	1.07	-	10m	750 / 120cm	-
50mm	10kg/m <sup>3</sup>	72%	0.90	1.25	0.6	10m	750 / 120cm	-
75mm	10kg/m <sup>3</sup>	78%	1.36	1.71	0.75	8m	750 / 120cm	-
100mm	10kg/m <sup>3</sup>	83%	1.81	2.16	0.75	6m	750 / 120cm	-
110mm *	11.5kg/m <sup>3</sup>	≥ 83%	2.39	2.79 *	≥ 0.75	5m	750 / 120cm	3 & 5
130mm *	11.5kg/m <sup>3</sup>	≥ 83%	2.83	3.23 *	≥ 0.75	5m	750 / 120cm	2
160mm *	11.5kg/m <sup>3</sup>	≥ 83%	3.48	3.88 *	≥ 0.75	4m	750 / 120cm	1, 4 & 6

\*SANS 10400XA Energy Efficiency in Buildings Compliant

# Interior Dry Walling



**ISOTHERM** is safe and easy to install and will not sag in hollow wall frame structures.

**ISOTHERM** will not support the spread of flame



## 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.

## Get it done

Position **ISOTHERM** correctly. Position closely to the cladding material 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.