Technical Data

Thermobreak® **LS**

MATERIAL	Physically cross-linked, closed cell polyolefin foam with factory applied reinforced aluminium foil facing, and optional pressure sensitive adhesive backing.	
	Metric	**Imperial**
Density	25kg/m^3	1.5lb/ft^3
Operating Temperature Range (no adhesive)	-80ºC to 100ºC	-112ºF to 212ºF
Thermal Conductivity (ASTM C518)	0.032 W/m.ºK (@23ºC mean temperature)	0.22 BTU.in/h.ft^2.ºF (@ 73ºF mean temperature)
Permeability Resistance Factor (ASTM E96)	μ > 80,000	
FM Approval (FM 4924 - sheet)	Certified (up to 25mm thickness)	
ASTM E84 (UL 723)	Complies (NFPA 90A & B) (up to 50mm thickness) Flame Spread Index: ≤ 25 Smoke Develop Index: ≤ 50	
VOC Emission Rate (ASTM D5116)	Low VOC	

*Technical data may be plant specific. Please consult the Thermobreak LS Technical Data Sheet for full technical data.

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THERMOBREAK®

SEKISUI
FOAM INTERNATIONAL

THERMOBREAK®

High-performance
Thermal & Acoustic Insulation

Thermobreak®
LS



0.032 W/m.°K

The lowest thermal conductivity of any flexible foam insulation.

μ > 80,000

Exceptional vapour resistance.

25kg/m^3

Lightweight, flexible and fast to install.

FM Approved

Superior fire performance tested to global standards.

Innovation Perfected

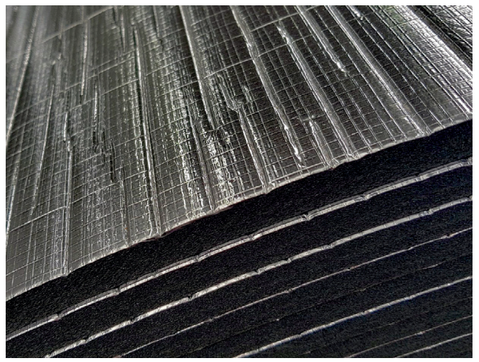
Thermobreak LS is the leading and most innovative flexible thermal insulation available to the HVAC & Building industry worldwide. This proven solution delivers unmatched performance, durability, and compliance.

Thermobreak LS is supplied with a factory applied, reinforced aluminium foil facing, and a repositional acrylic tissue adhesive system. We use the highest quality materials in our manufacturing process, ensuring longevity and continuous energy savings.

Our **reinforced aluminium foil barrier** provides a built in physical protection layer for the insulation, whilst also reducing heat flow, providing additional energy savings over non-foil faced alternatives.

Thermobreak's proprietary **tissue-based acrylic adhesive system** ensures 100% coverage of the insulation, allowing a complete bond to the subsrate. Our adhesive has the added benefit of being repositional, allowing you to realign the insulation multiple times, withour any tearing or adhesive loss.

With its **closed cell structure**, Thermobreak LS has near zero water absorption, ensuring performance does not degrade over time.







Physically Cross-linked. Performance Perfected.

We didn't just improve existing insulation - we revolutionised it. Our pioneering physically cross-linked polyolefin technology, developed by Sekisui Chemical, created a superior cell structure that delivers an industry leading thermal conductivity, exceptional vapour resistance, and unmatched durability.

Our proprietary physical cross-linking process produces smaller, more evenly distributed cells, that maintain performance for decades. The result? Insulation that others are still trying to match. While competitors catch up to yesterday's innovation, we continue pushing the boundaries and setting new benchmarks in performance.

But technology means nothing without real-world solutions. From preventing condensation on ducts and pipes, to meeting the strictest rail safety standards, our innovations solve actual challenges. Every product is engineered for conditions specific to your environment, and backed by our comprehensive technical support.

Size availability

Thermobreak® **LS**

Material Thickness		Sheet Dimensions		Roll Dimensions	
Metric	Imperial	Metric	Imperial	Metric	Imperial
5mm	3/16"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 50m	47.2" x 164'
10mm	3/8"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 20m	47.2" x 65.6'
12mm	1/2"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 20m	47.2" x 65.6'
15mm	5/8"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 20m	47.2" x 65.6'
20mm	3/4"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 20m	47.2" x 65.6'
25mm	1"	2300mm x 1200mm	90.5" x 47.2"	1200mm x 15m	47.2" x 49.2'
30-50mm	1 3/16" - 2"	2300mm x 1200mm	90.5" x 47.2"	N/A	N/A

*Other sizes available upon request