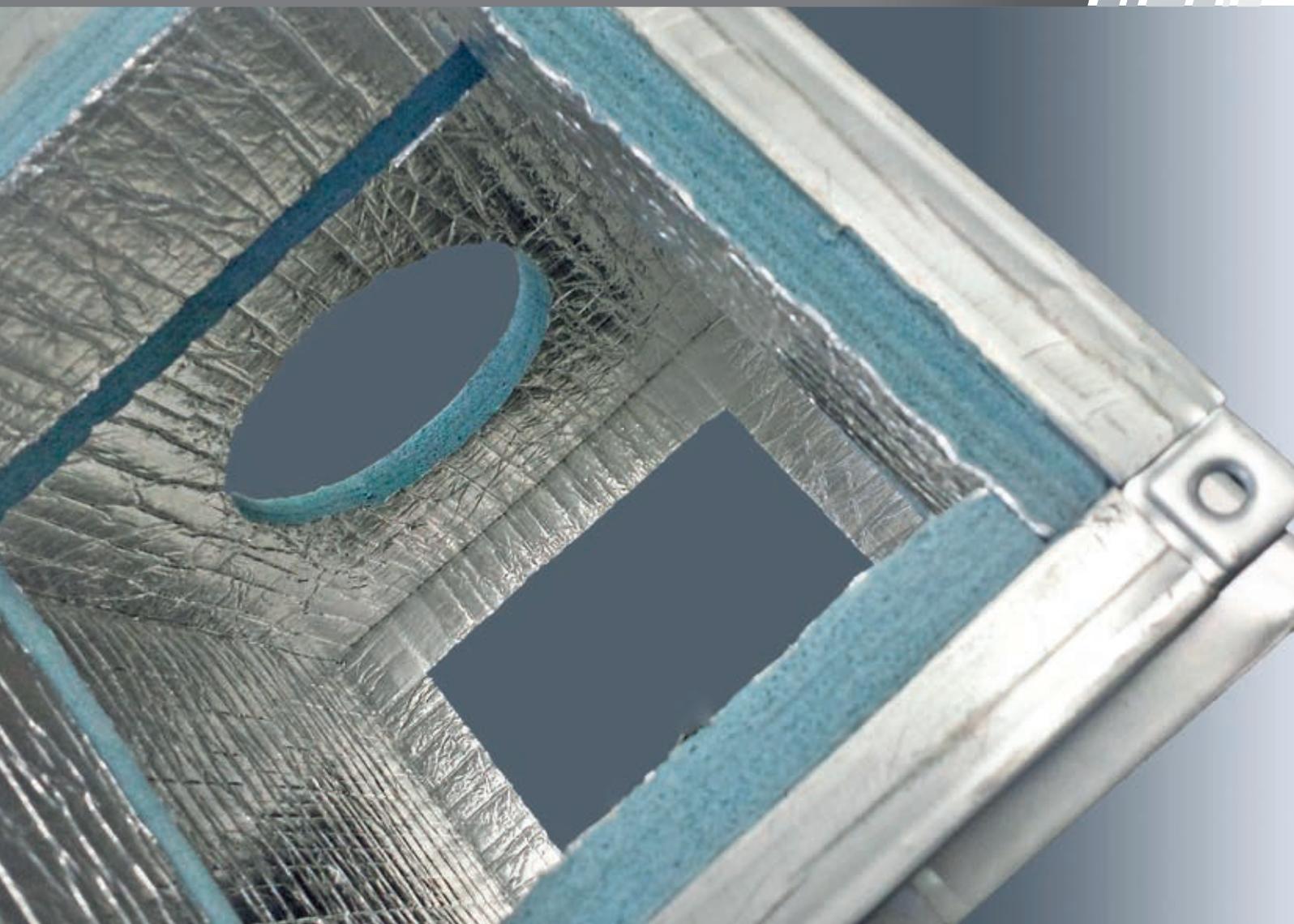


# **THERMOBREAK<sup>®</sup> AcoustiPlus**

## **ACOUSTIC INSULATION**

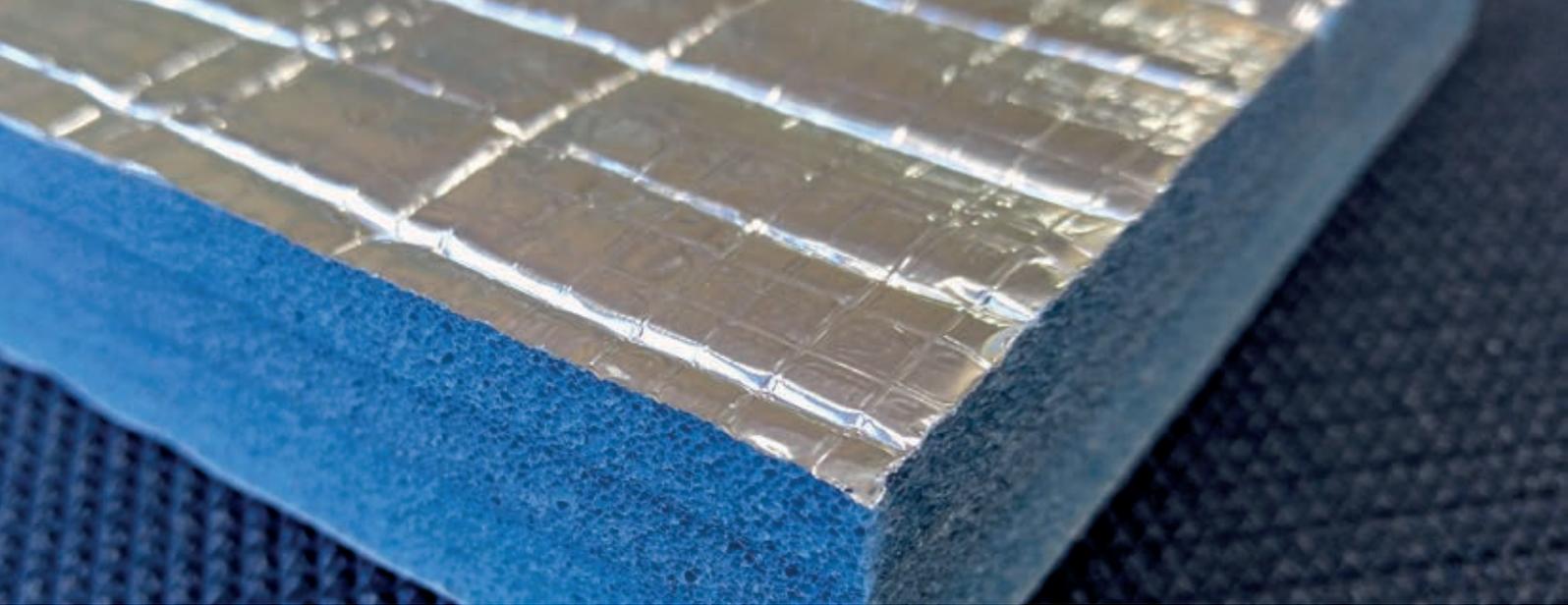


- Flexible, partially open cell physically crosslinked polyolefin foam duct liner
- Excellent sound absorption properties
- Fibre free
- Fire rated to BS 476 Class 0 and ASTM E84

**SEKISUI**

**FOAM  
INTERNATIONAL**  
Global Foam Solutions

**PHYSICALLY  
CROSSLINKED**  
SEKISUI TECHNOLOGY



**Thermobreak®** is the leading and most innovative polyolefin foam thermal insulation available to the HVAC and Building industry worldwide. Thermobreak's® performance is unsurpassed.

Developed in Australia over 30 years ago, Thermobreak® is manufactured using our proprietary physically crosslinked closed cell polyolefin foam technology, invented and commercialised by the Sekisui Chemical group in Japan. Laminated with reinforced foil and adhesive backing, Thermobreak® is widely recognised as the global leader in polyolefin insulation.

Thermobreak insulation is manufactured to ASTM C1427 Standard.

## A New Generation Duct Liner

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Thermobreak® AcoustiPlus is a new generation physically cross-linked polyolefin foam based duct liner. It is fibre-free and meets international fire and smoke standards. It demonstrates excellent acoustic properties, even at low thicknesses. It has extremely low water absorption thus preventing bacterial growth and odours commonly associated with fibrous based duct lining. Thermobreak AcoustiPlus is supplied with reinforced aluminium foil and is available with a pressure sensitive adhesive backing.

## Compliance to International Fire & Smoke Standards

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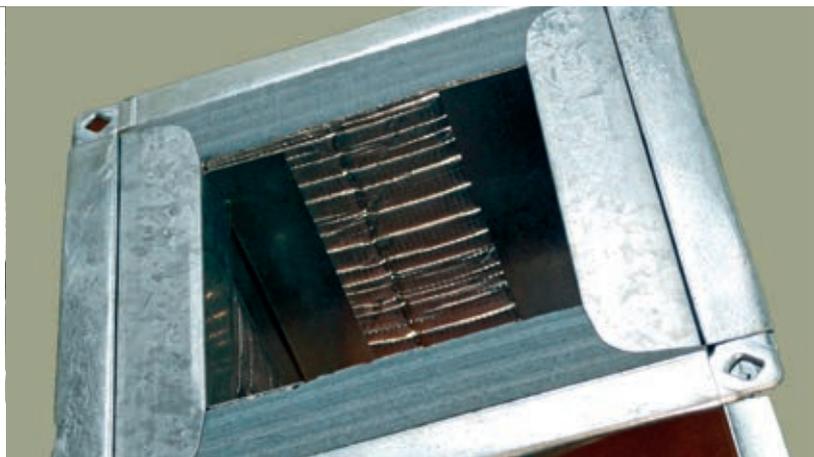
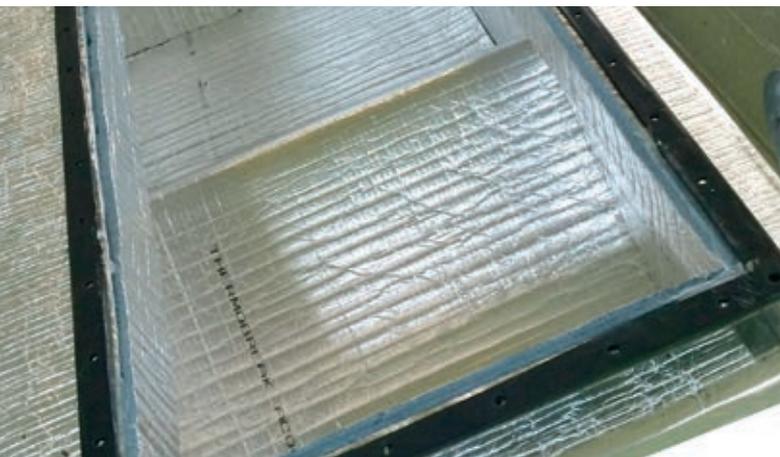
Thermobreak® Acoustiplus complies with major international fire and smoke standards

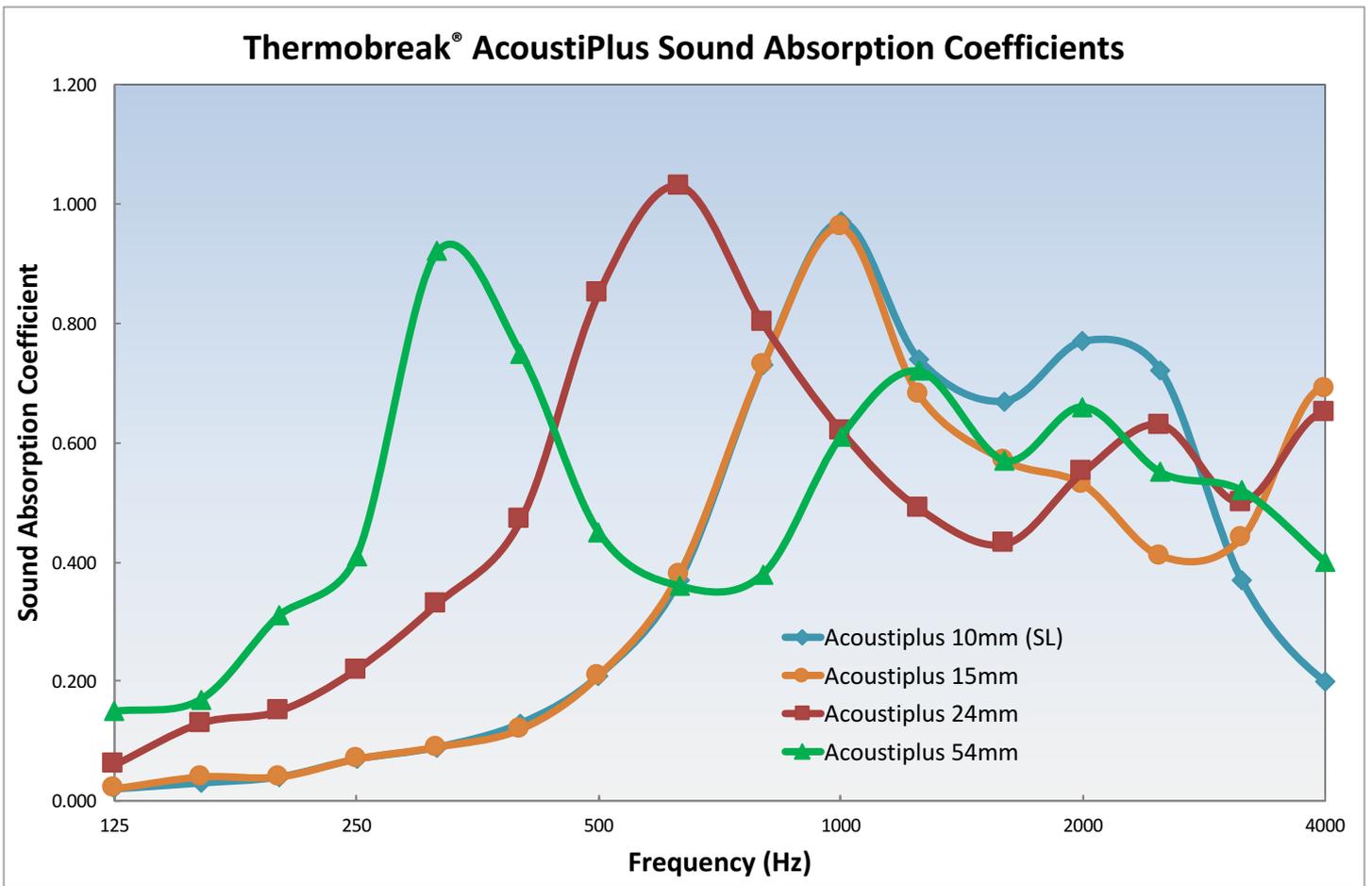
- British Standard BS 476 (Class 0);
- Australian Standard AS 1530.3;
- ASTM E84 (25/50)

## Engineered To Perform

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Thermobreak AcoustiPlus solves tight clearance issues by providing excellent acoustic absorption, very low thermal conductivity and low water vapour permeance at a low thickness. Thermobreak Acoustiplus is easy to cut, available with a repositionable adhesive backing and fibre free resulting in a fast, easy and mess free install.





## Software Design Selection

- AcustiCalc computer selection program provides noise reduction analysis based on dB input, insulation thickness and length of duct lining.



## Health, Safety & the Environment

- Completely user friendly and does not emit fibres or dust during installation or in service.
- Non-irritant, odourless and does not support bacterial growth.
- Anti-Microbial & Low VOC for improved indoor air quality.
- Completely user friendly and does not emit fibres or dust during installation or in service.
- Green Star compliant, Zero Global Warming Potential (GWP), made without ozone destroying agents such as CFCs or HCFCs.
- Manufactured under a certified ISO 14001 Environmental Management System.



Burjeel Medical City Abu Dhabi, UAE



JW Marriott Phu Quoc, Vietnam

# THERMOBREAK<sup>®</sup> AcoustiPlus

## ACOUSTIC INSULATION

### Physical Properties

Material: Physically (irradiation) crosslinked partially open cell polyolefin foam with factory applied reinforced aluminium foil and optional pressure sensitive adhesive backing.

Density:	25 kg/m <sup>3</sup> (foam core only)
Thermal Conductivity: (ASTM C518)	0.035 W/mK (@ 23°C mean temp.)
Water absorption by volume: (JIS K6767)	<1% v/v (0.0075 g/cm <sup>2</sup> ) (15mm thickness with no adhesive backing)
Resistance to fungi: (ASTM G21)	Zero Growth
VOC Emission Rate: (ASTM D5116)	Low VOC Emitting ("Green Star")
Operating Temperature Range:	-80 °C ~ +100 °C (no adhesive backing)
Maximum Recommended Design Air Velocity:	20.3 m/s (4000 fpm)

### Performance Indices

(ISO 354 Sound Absorption)

Thickness	SAC (a <sub>w</sub> )	NRC
10mm	0.30 (MH)	0.50
15mm	0.30 (MH)	0.45
24mm	0.55 (M)	0.55
54mm	0.55	0.55

Other thickness available on request.

Product certification may be plant specific. Please consult with your local representative.

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### Fire and Smoke Performance

AS1530 Part 3	Ignitability Index:	0
	Spread of Flame Index:	0
	Heat Evolved Index:	0
	Smoke Developed Index:	0-1

UL181	COMPLIES (AS4254)	
ASTM E84 / UL 723	COMPLIES (NFPA 90A & B)	
	Flame Spread Index:	≤25
	Smoke Developed Index:	≤50

BS 476 Parts 6 & 7: CLASS 0

ISO 5659 Part 2	Smoke Density: COMPLIES (EN 45545-2, R1 HL3 Rating)
	Smoke Toxicity: COMPLIES (EN 45545-2, R1 HL3 Rating)

### Size Availability

Thickness	Width (mm)	Length (m)
10mm SL	1200	20m rolls
15mm	1200	20m rolls
24mm	1200	2.3m sheets
54mm	1200	2.3m sheets

Other thickness available on request.

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INTERNATIONAL  
Global Foam Solutions



#### Head Office

1-5 Parraweena Rd, PO Box 2898,  
Taren Point NSW 2229 Australia  
Tel: +61 2 9525 9880  
Fax: +61 2 9525 8004  
Email: info@sekisuifoam.com.au  
Web: www.sekisuifoam.com.au

#### Queensland Branch

15/853 Nudgee Rd PO Box 448  
Northgate QLD 4013 Australia  
Tel: +61 7 3267 7100  
Fax: +61 7 3267 7166  
Email: info@sekisuifoam.com.au  
Web: www.sekisuifoam.com.au