

## TECHNICAL DATA SHEET

### Thermobreak® Acoustiplus™

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

**Density:** 1.5 pcf (foam core only)

**Thermal Conductivity:** 0.25 BTU.in/h.ft<sup>2</sup>.°F (@ 73°F mean temperature)  
(ASTM C518)

**Water Absorption by Volume:** < 0.3 % v/v  
(ASTM C1763, Procedure B, 24h)

**Resistance to Fungi:** Zero Growth  
(ASTM G21)

**VOC Emission Rate:** Low VOC emitting ("Green Star")  
(ASTM D5116)

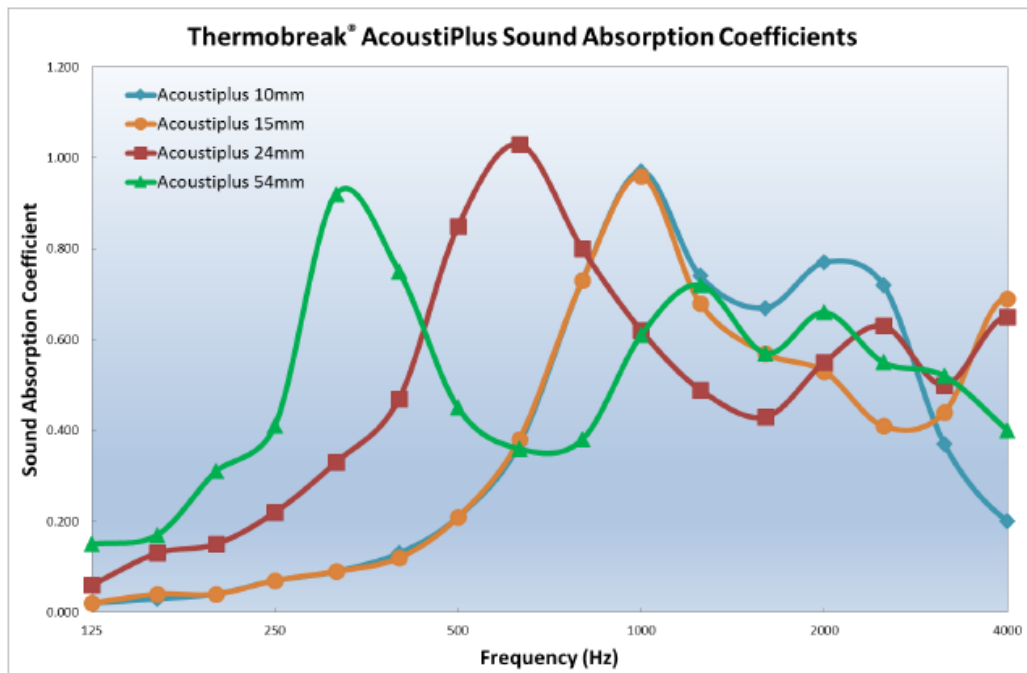
**Performance Indices:**  
(ISO 354)

Thickness	SAC ( $\alpha_w$ )	NRC
3/8" / 10mm	0.30 (MH)	0.50
5/8" / 15mm	0.30 (MH)	0.45
1" / 24mm	0.55 (M)	0.55
2" / 54mm	0.55	0.55

**Operating Temperature Range:** -112 °F ~ +212 °F (no adhesive)

**Maximum Recommended Design Air Velocity:** 4000 fpm

**Sound Absorption Spectra:**



## FIRE AND SMOKE PERFORMANCE

AS 1530 Part 3	Ignitability Index: Spread of Flame Index: Heat Evolved Index: Smoke Developed Index:	COMPLIES (AS 4254) 0 0 0 0 – 1
ASTM E84 (UL 723):	Flame Spread Index: Smoke Developed Index:	COMPLIES (NFPA 90A & B) ≤25 ≤50
DIN 54837	Burning Test	COMPLIES (DIN 5510:2) Classification S4, SR2, ST2
ISO 5658 Part 2	Flame Spread	COMPLIES (EN 45545:2 R1, HL3 RATING, 1/5" – 1")
ISO 5659 Part 2	Smoke Density	COMPLIES (EN 45545:2 R1, HL3 RATING, 1/5" – 1")
	Smoke Toxicity	COMPLIES (EN 45545:2 R1, HL3 RATING, 1/5" – 1") COMPLIES (DIN 5510:2) FED < 1
ISO 5660 Part 1	Heat Release Rate	COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 24mm)
ASTM E162	Surface Flammability	COMPLIES (PRIIA/NFPA 130)
ASTM E662	Smoke Density	COMPLIES (PRIIA/NFPA 130)
ASTM E1354	Heat Release Rate	COMPLIES (PRIIA)
BSS 7239 (Boeing)	Smoke Toxicity	COMPLIES (PRIIA)
BS 476 Parts 6 & 7		CLASS 0
UL 181 Part 11	Burning Test	COMPLIES (AS 4254)

## TOLERANCES

The following tables list tolerances for thickness, density and width of standard Thermobreak® Acoustiplus™ products:

<b>Thickness</b>	
<b>Nominal Thickness</b>	<b>Tolerance (based on SI nominal value and converted from SI units)</b>
3/8" (10mm)	0.35" – 0.45"
5/8" (15mm)	0.55" – 0.67"
1" (24mm)	0.90" – 1.05"
2" (54mm)	2.05" – 2.25"
Other thicknesses and tolerances subject to confirmation.	

<b>Density* (foam only)</b>	
<b>Nominal Density</b>	<b>Tolerance (based on SI nominal value and converted from SI units)</b>
1.5 pcf (25 kg/m³)	± 10%
*Applies to the foam core. The density of Thermobreak with reinforced aluminium foil will be higher.	

<b>Width (Sheet)</b>	
<b>Nominal Width</b>	<b>Tolerance (based on SI nominal value and converted from SI units)</b>
48" (1200mm)	47.2" – 48.0"
Other widths and/or tolerances subject to confirmation.	

## ENQUIRIES

If you require any further information, please consult your local distributor or contact us at

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This information on Sekisui Foam International products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

Recommendations as to methods of post fabrication, application and use of Sekisui Foam International products are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Foam International products and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Foam International products are utilised or for any application.

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