



FOIL LAMINATE INDUSTRIES SDN BHD
(343587-X)



ACOUSTIC THERMAL FOIL ATF1FR

Key Benefits



Sound Insulation



Thermal Efficiency



Fire Retardant



Easy Installation



Energy Cost Saving



Self Support



Vapor Barrier



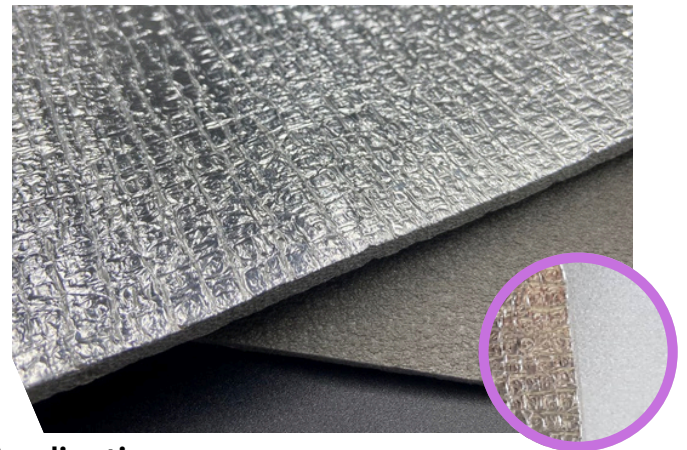
Tear Resistant

High-Performance XPE Foam Fire-Retardant Reflective Insulation for Roofing Systems

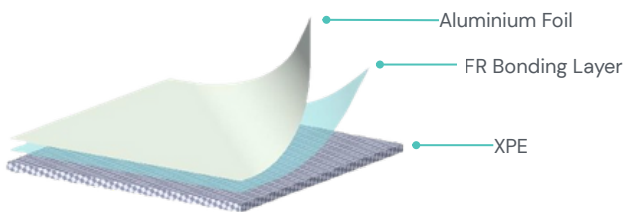
- Fire retardant single-sided acoustic thermal XPE insulation aluminium foil.
- ATF1FR is a **(3) three-layer**, single-sided acoustic and thermal reflective insulation, lamination of single side pure aluminium foil with fire retardant cross-linked polyethylene foam (XPE).
- It is durable, resistant to heat, cold, and chemicals, and provides thermal stability, sound absorption, noise reduction, and cushioning with its closed-cell foam structure.

Standard Size: 1.20m (Width) x 30m (Length)

** Custom length is available. Contact us for more details.*



Cross Section



Application

- Designed for thermal, sound insulation, suitable in the building and construction field where thermal insulation, moisture resistance, sound and vibration are critical.
- As a reflective insulation under all types of roof coverings in commercial, industrial and residential building.
- Also suitable for duct insulation, tubular pipe and raised floor.





BQ Specification

Approved MS2095 and CIDB ATF1FR (200±30g/m², 5.0±1.0 mm total thickness) fibre-free, fire retardant with high reflective single-sided pure aluminium foil consists with high performance acoustic thermal of 5 mm thickness XPE foam.

Product Technical Data

PROPERTY	TEST METHOD	RESULT/SPECIFICATION	GRADE/REMARK
Reflectivity/ Emissivity	ASTM C 1371	95% / 5%	
Tensile Strength	(MD) AS/NZS 1301.448s	≥ 1.0 kN/m	Light
	(CD) AS/NZS 1301.448s	≥ 0.7 kN/m	Extra Light
Edge Tear Resistance	(MD) TAPPI T470	≥ 25.0 ±10.0 N	Light
	(CD) TAPPI T470	≥ 20.0 ± 10.0 N	Light
Vapor Barrier (WVTR)	ASTM E96	0.1294 µg/N.s (7.73 MN.s/g)	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Pass
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Pass
Shrinkage	AS/NZS 4201.3	≤ 0.5 %	Pass
Grammage	In House	200 ± 30 g/m ²	
Thickness	In House	5.0 ± 1.0 mm	
Sound Reduction	In House	9-10 %	Test at 87db
Sound Transmission Loss	ISO 10140 - 2	7 dB	Eq. to STC

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.

* No guarantee can be made regarding specific applications or patent rights.

Fire Property

FIRE TESTS ON BUILDING MATERIALS AND STRUCTURES

CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation for Products, Sub- Index, i_1 Overall Performance Index	BS 476 : Part 6	< 6 < 12
Surface Spread of Flame of Products	BS 476 : Part 7	CLASS 1
Classification of Fire Rating	-	CLASS 0

Thermal Property

ATF1FR is tested in accordance to ISO 8301

- Thermal resistance, R-value : 1.319 m²K/W

*The above value are based on MS2095 testing requirements, which include a total air gap of 100 mm.

Handling and Storage

Store this product under cover and dry conditions.



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