FOIL LAMINATE INDUSTRIES SDN BHD
(343587-X)

certified by BOMBA

CIDB Certified

ACOUSTIC THERMAL FOIL
ATF2FR

Sound Insulation | Thermal Efficiency | Fire Retardant | Easy Installation

Key Benefits

Energy Cost Saving | Self Support | Vapor Barrier | Tear Resistant

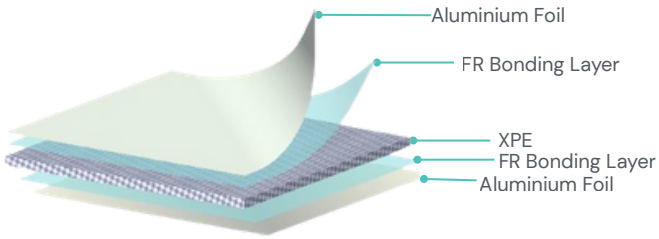
High-Performance XPE Foam Fire-Retardant Reflective Insulation for Roofing Systems

- Fire retardant double-sided acoustic thermal XPE insulation aluminium foil.
- **ATF2FR** is a **(5) five-layer**, double-sided acoustic and thermal reflective insulation, lamination of both 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 ATF2FR (260±30g/m², 5.0±1.0 mm total thickness) fibre-free, light duty performance fire retardant with high reflective double-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	99% / 1%	
Tensile Strength	(MD)	AS/NZS 1301.448s	≥ 2.0 kN/m	Medium
	(CD)	AS/NZS 1301.448s	≥ 1.0 kN/m	Light
Edge Tear Resistance	(MD)	TAPPI T470	≥ 25.0 ±10.0 N	Light
	(CD)	TAPPI T470	≥ 16.0 ± 10.0 N	Light
Vapor Barrier (WVTR)		ASTM E96	0.001 µg/N.s (1000 MN.s/g)	High
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	260 ± 30 g/m^2	
Thickness		In House	5.0 ± 1.0 mm	
Sound Reduction		In House	12 - 13 %	Test at 87db
Sound Transmission Loss		ISO 10140 - 2	6 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

ATF2FR is tested in accordance to ISO 8301

- **Thermal resistance, R-value : 2.543 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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