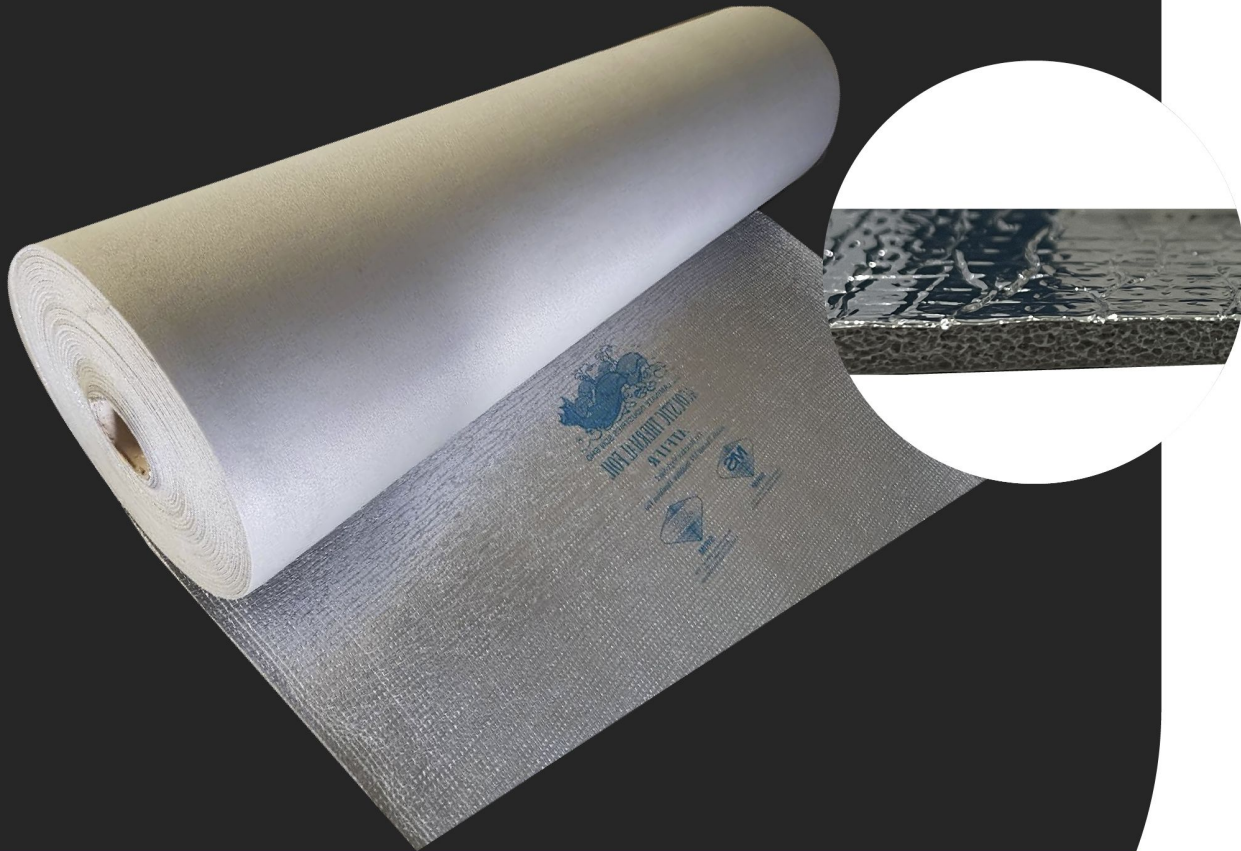




Reflective ~ Protective ~ Excellence
FOIL LAMINATE



ACOUSTIC THERMAL FOIL



UV
RESISTANT



SOUND
INSULATION



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

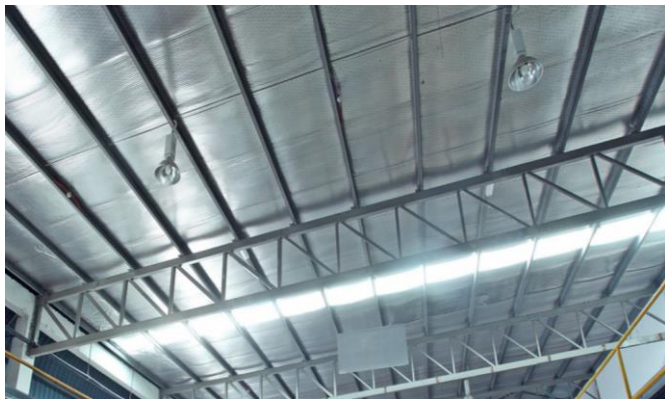
ATFIFR

Product Description

ATFIFR is a three (3) layer single-sided acoustic thermal reflective insulation, lamination of one side pure aluminium foil with fire retardant cross-linked polyethylene foam (XPE). ATFIFR durable in use and endurable to heat, cold and chemical reaction. It typically offers superb thermal stability and it absorb sound, reduce noise, and provide cushioning function with the structure of closed-cell foam.

ACOUSTIC THERMAL FOIL

ATF1FR



FIRE PROPERTY

ATF1FR is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for product
- British Standard, BS 476-7: Surface spread of flame test

AWARD

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)

THERMAL PROPERTY

ATF1FR is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 0.820 m²K/W
- Thermal transmittance, U-value: 1.220 W/m²K
- Thermal conductivity, K-value: 0.122 W/mK

BQ SPECIFICATION

To supply & install ACOUSTIC THERMAL FOIL ATF1FR under MS2095:2014 and CIDB certified single-sided aluminium foam foil as described.

Go GREEN

Environmental friendly green product recognized through

- Green building Index (GBI) by MGBC

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.

INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (5.0 cm) below the roof to maximize the effectiveness of this product.

ACOUSTIC THERMAL FOIL, ATF1FR (MS 2095 : 2014)

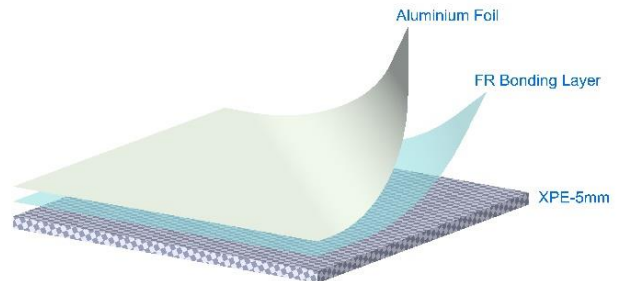
Reflectivity / Emissivity	ASTM C1371	98% / 2%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 1.0 kN/m	Light
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 1.0 kN/m	Light
Edge Tear Resistance (MD)	TAPPI T470	≥ 10 N	Light
Edge Tear Resistance (CD)	TAPPI T470	≥ 10 N	Light
Vapor Barrier (WVTR)	ASTM E96	>7, <450 MN.s/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	215 ± 50 GSM	
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.

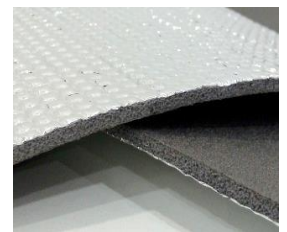
* No guarantee can be made regarding specific applications or patent rights.

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

ATF1FR-X5



FRONT



SIDE



Reflective ~ Protective ~ Excellence

www.foil-laminate.com

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REFLECTIVE INSULATION MANUFACTURERS OF MALAYSIA