FOIL LAMINATE INDUSTRIES SDN BHD
(343587-X)

certified by BOMBA

CIDB Certified

MATT - FOIL
MF1-FR

Aluminium Foil

DUTY : HEAVY DUTY

Key Benefits

- Radiant Heat Reflectivity
- Thermal Efficiency
- Fire Retardant
- Easy Installation
- Energy Cost Saving
- Self Support
- Vapor Barrier
- Tear Resistant

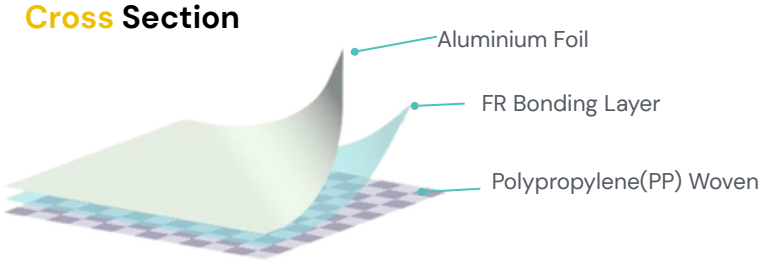
High-Performance PP Woven Fire-Retardant Radiant Barrier for Roofing Systems

- High tensile fire retardant single-sided pure aluminium radiant barrier polypropylene woven foil.
- **MF1-FR** is a **(3) three-layer**, single-sided radiant barrier with excellent tensile, tear and puncture resistance.
- Lightweight, heavy duty product.
- Rating of fire retardant : CLASS O (BS476 Part 6 & BS476 Part 7)

Standard Size: 1.25m (Width) x 48m (Length)

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

Cross Section



Application

- As a radiant barrier under enclosed building area in commercial, industrial and residential building.
- No wire netting is required for support.
- Not designed for continuous, high intensity, direct or indirect UV exposure before or after installation.
- Not suitable for applications subjected to continuous UV exposure, including roof overhangs and internal building edges exposed to direct or indirect sunlight.

BQ Specification

Approved MS2095 and CIDB MF1-FR (95±20 g/m², 100±20 µm total thickness), heavy duty high tensile fire retardant single-sided pure aluminium radiant barrier polypropylene (PP) woven foil.

Product Technical Data

PROPERTY		TEST METHOD	RESULT/SPECIFICATION	GRADE/REMARK
Reflectivity/ Emissivity		ASTM C 1371	97% / 3%	
Tensile Strength	(MD)	AS/NZS 1301.448s	≥ 12.5 kN/m	Heavy
	(CD)	AS/NZS 1301.448s	≥ 7.5 kN/m	Heavy
Edge Tear Resistance	(MD)	TAPPI T470	≥ 260.0 ± 50.0 N	Extra Heavy
	(CD)	TAPPI T470	≥ 210.0 ± 50.0 N	Extra Heavy
Vapor Barrier (WVTR)		ASTM E96	0.00277 µg/N.s (361.5 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	95 ± 20 g/m^2	
Thickness		In House	100 ± 20 µm	

** 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

MF1-FR is tested in accordance to ISO 8301

- **Thermal resistance, R-value : 1.626 m²K/W**

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

Handling and Storage

Store this product under cover and dry conditions.

Foil Laminate Industries Sdn. Bhd. (343587-K)

Factory/HQ: 1139, Lorong Perindustrian Bukit Minyak 11, Taman Perindustrian Bukit Minyak, 14100 Simpang Ampat, Penang, Malaysia

Tel: +604-5011 999 **Fax:** +604-5011 991

PJ Office: (1st Floor), Jalan PJS 9/5, Bandar Sunway, 46150 Petaling Jaya, Selangor Malaysia

Tel: +603-5621 4868 **Fax:** +603-5621 4878