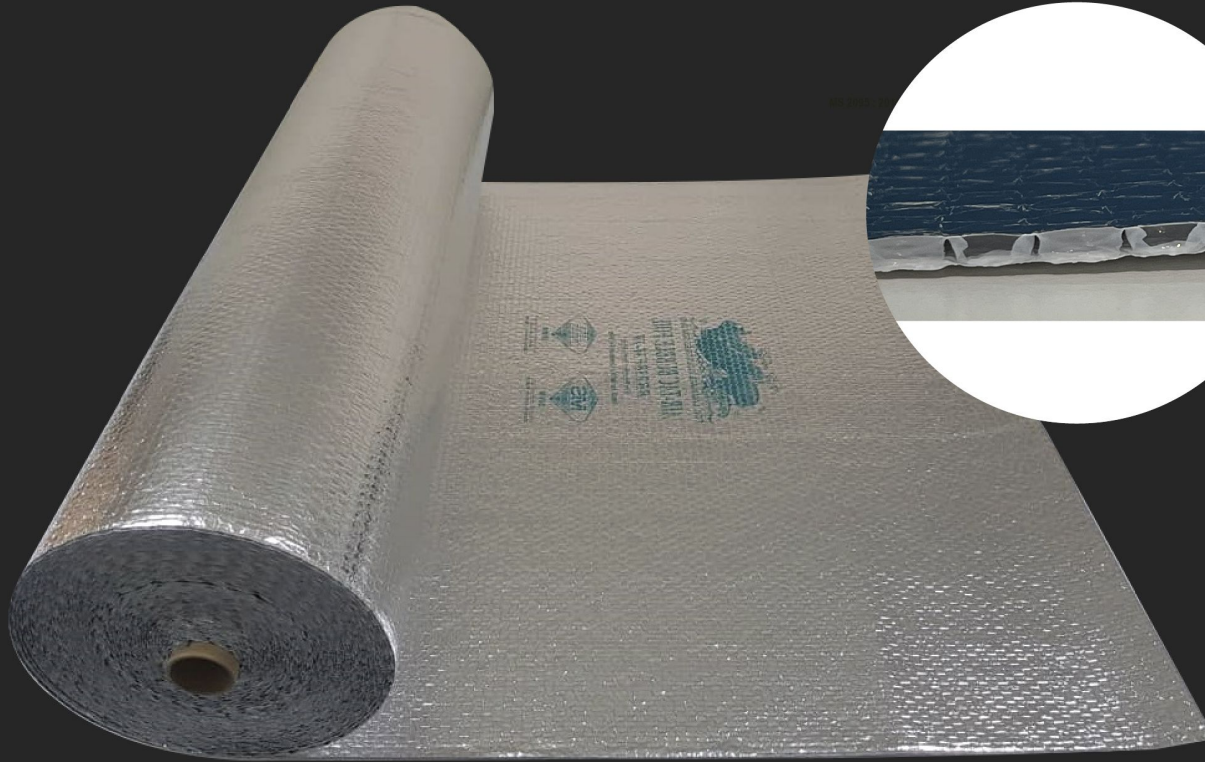




Reflective ~ Protective ~ Excellence  
**FOIL LAMINATE**



# AIR - TAC BUBBLE FOIL



SELF SUPPORT



SOUND INSULATION



VAPOR BARRIER



PUNCTURE RESISTANCE



TEAR RESISTANCE



FIRE RETARDANT

## BB238FM-10

### Product Description

BB238FM-10 is a seven (7) layer self-supporting fire retardant double-sided reflective insulation, lamination of pure aluminium foil with aluminium film with high density polyethylene small air bubbles. BB238FM-10 can be used independently without wire mesh or other mass insulation. It serves as an effective thermal insulation as well as a vapor barrier membrane. It is tear resistant, hygienic, durable, fibre-free, nontoxic, resistance to fungus, insects, nesting rodents and other pests.

# AIR-TAC BUBBLE FOIL

## BB238FM-10



### FIRE PROPERTY

BB238FM-10 is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- 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

BB238FM-10 is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 1.277 m<sup>2</sup>K/W
- Thermal transmittance, U-value: 0.783 W/m<sup>2</sup>K
- Thermal conductivity, K-value: 0.081 W/mK

### BQ SPECIFICATION

To supply & install AIR-TAC BUBBLE FOIL BB238FM-10 under MS2095:2014 and CIDB certified double-sided aluminium bubble foil as described.

### GO GREEN

- Environmental friendly green product recognized through Green building Index (GBI) by MGBC

### APPLICATION

- It widely used under roof for food industry, farmhouse, agricultural storage and poultry building.
- Highly recommended for building or construction which required superior radiant heat insulation and dominant tensile strength for medium duty roof systems.
- No wire netting is required for support.
- As a reflective insulation under all types of roof coverings in commercial, industrial and residential building.

### 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.

### AIR-TAC BUBBLE FOIL, BB238FM-10 (MS 2095 : 2014)

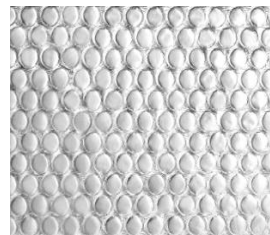
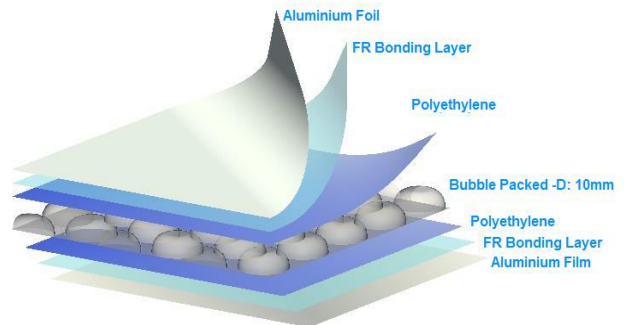
Reflectivity / Emissivity	ASTM C1371	95% / 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 2.0 kN/m	Medium
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 2.0 kN/m	Medium
Edge Tear Resistance (MD)	TAPPI T470	≥ 50 N	Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 50 N	Heavy
Vapor Barrier (WVTR)	ASTM E96	>7, < 450 MN.s/g	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	210 ± 50GSM	
Thickness	Digital caliper	4 ± 1 mm	
Sound Reduction	In-house	11 - 12 %	Test at 87 db

\* 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: 1.22m (Width) X 40m (Length)**

BB238FM-10



FRONT



BACK



Reflective ~ Protective ~ Excellence

[www.foil-laminate.com](http://www.foil-laminate.com)

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REFLECTIVE INSULATION MANUFACTURERS OF MALAYSIA