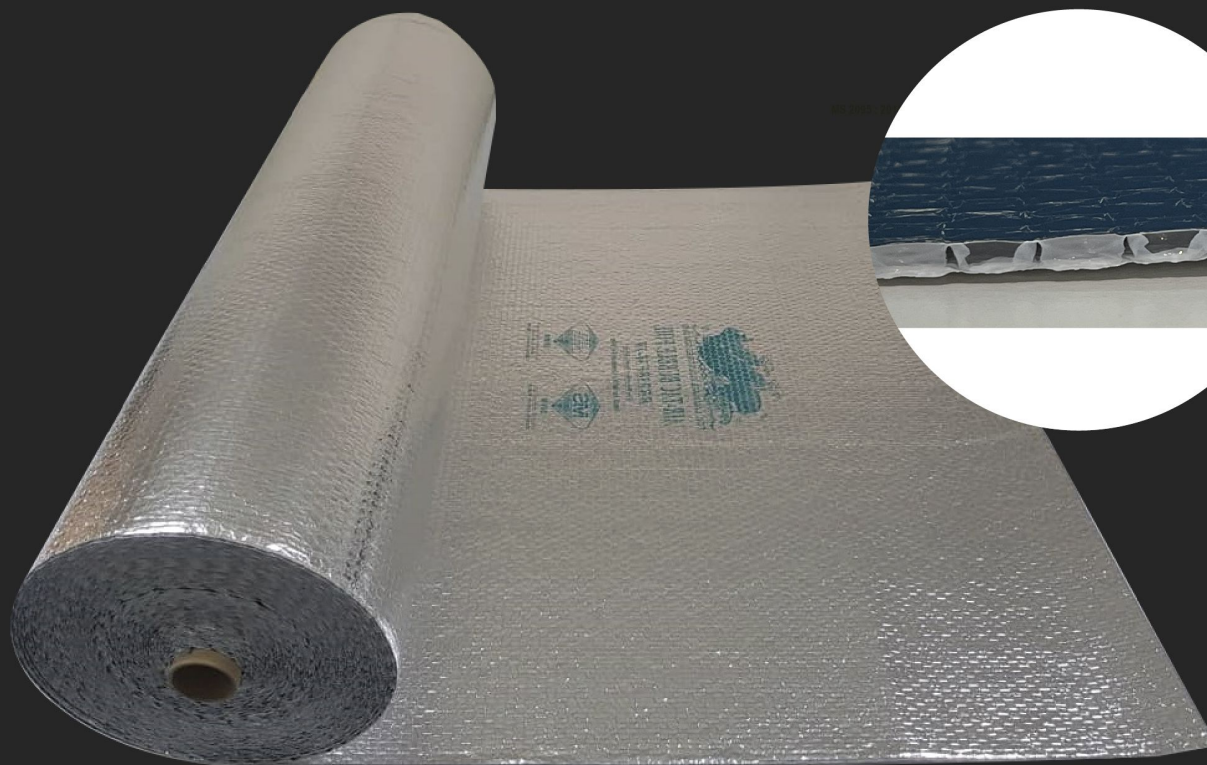




Reflective ~ Protective ~ Excellence
FOIL LAMINATE



AIR - TAC BUBBLE FOIL



SELF
SUPPORT



SOUND
INSULATION



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

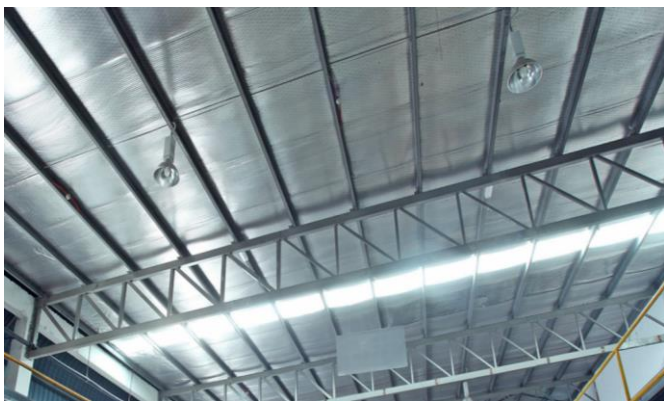
BB238FM-10

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 m²K/W
- Thermal transmittance, U-value: 0.783 W/m²K
- 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)

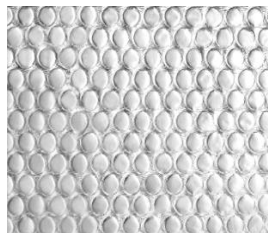
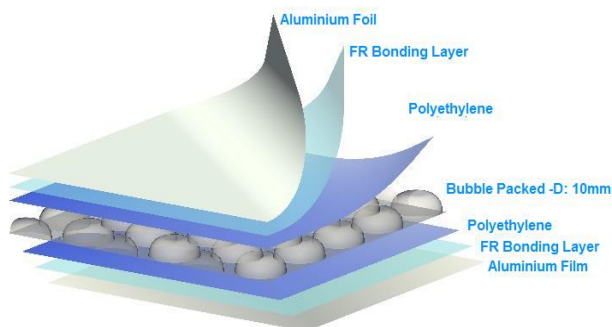
Reflectivity / Emissivity	ASTM C1371	95% / 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 2.0 kN/m	Medium
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 2.0 kN/m	Medium
Edge Tear Resistance (MD)	TAPPI T470	≥ 50 N	Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 50 N	Heavy
Vapor Barrier (WVTR)	ASTM E96	>7, < 450 MN.s/g	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

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Tel: 603-56214868

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AIR-TAC BUBBLE FOIL

BBS2FR-25



DESCRIPTION

Fire retardant double-sided single layer big air bubble aluminium foil reinforced with glass fibre scrim

BBS2FR-25 is an eight (8) layer fire retardant self-supporting double-sided reflective insulation, lamination of both side pure aluminium foil with high density polyethylene big air bubbles reinforced with glass fibre scrim.

BBS2FR-25 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.

FIRE PROPERTY

BBS2FR-25 is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

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

AWARD

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

THERMAL PROPERTY

BBS2FR-25 is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 1.771 m²K/W
- Thermal transmittance, U-value: 0.565 W/m²K
- Thermal conductivity, K-value: 0.060 W/mK

BQ SPECIFICATION

To supply & install **AIR-TAC BUBBLE FOIL BBS2FR-25** 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 heavy 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, BBS2FR-25 (MS 2095 : 2014)

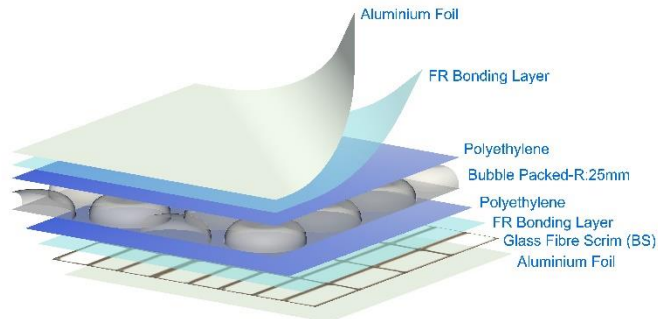
Reflectivity / Emissivity	ASTM C1371	≥ 95 % / ≤ 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 4.5 kN/m	Extra Heavy
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 3.0 kN/m	Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 80 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 80 N	Extra Heavy
Vapor Barrier (WVTR)	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	320 - 420 GSM	
Thickness	Digital caliper	7 ± 1 mm	
Sound Reduction	In-house	12 - 13 %	Test at 87 db
Sound Transmission Loss (STC)	ISO 10140-2	8 dB	Eq. to STC 8

* 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)

BBS2FR-25



www.foil-laminate.com

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Email: ask@foil-laminate.com



AIR-TAC BUBBLE FOIL

BFB2FR CLASS 'O'



DESCRIPTION

Fire retardant double-sided aluminium foil with double layer air bubble with single high performance acoustic thermal XPE foam

BFB2FR CLASS 'O' is a thirteen (13) layer fire retardant self-supporting double-sided reflective insulation, lamination of both side pure aluminium foil with high density polyethylene small air bubbles with fire retardant cross-linked polyethylene foam (XPE).

BFB2FR CLASS 'O' can be used independently without wire mesh or other mass insulation. It serves as an effective thermal insulation as well as superb thermal stability and it absorb sound, reduce noise, and provide cushioning function with the middle structure of closed-cell foam.

FIRE PROPERTY

BFB2FR CLASS 'O' is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

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

AWARD

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

THERMAL PROPERTY

BFB2FR CLASS 'O' is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 2.023 m²K/W
- Thermal transmittance, U-value: 0.494 W/m²K
- Thermal conductivity, K-value: 0.049 W/mK

BQ SPECIFICATION

To supply & install BF-FOIL BFB2FR CLASS 'O' 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

- Designed for thermal and sound insulation of building and construction field where thermal insulation, moisture resistance, sound and vibration are critical.
- Highly recommended for building or construction which required superior radiant heat insulation and dominant tensile strength for heavy 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 , BFB2FR CLASS 'O' (MS 2095 : 2014)

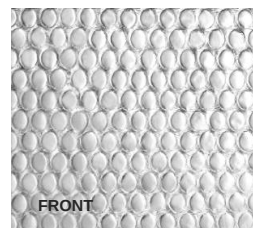
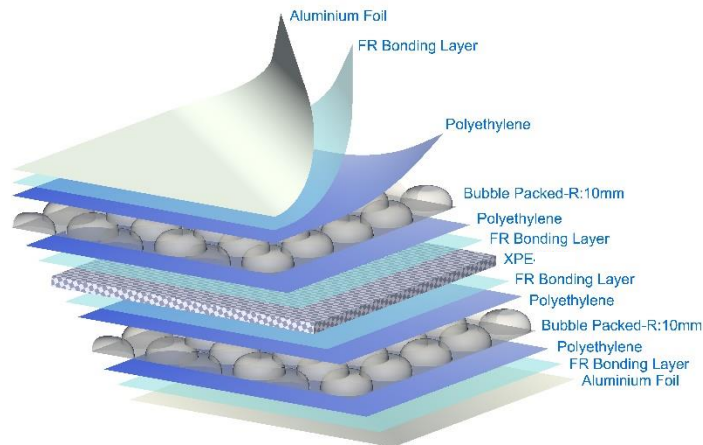
Reflectivity / Emissivity	ASTM C1371	≥ 95 % / ≤ 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 4.5 kN/m	Extra Heavy
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 3.0 kN/m	Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 80 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 80 N	Extra Heavy
Vapor Barrier (WVTR)	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	400 - 600 GSM	
Thickness	Digital caliper	10 ± 2 mm	
Sound Reduction	In-house	16 - 17 %	Test at 87 db
Sound Transmission Loss (STC)	ISO 10140-2	8 dB	Eq. to STC 8

* 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 30m (Length)

BFB2FR-CLASS O



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