

# AIR-TAC BUBBLE FOIL

## BW2FR-10



### DESCRIPTION

High tensile fire retardant double-sided, single layer small air bubble aluminium foil reinforced with polypropylene woven fabric

**BW2FR-10** is a nine (9) layer self-supporting high tensile fire retardant double-sided radiant barrier and reflective insulation, lamination of both side pure aluminium foil with high density polyethylene small air bubbles reinforced with polypropylene (PP) woven fabric.

**BW2FR-10** is designed for greater tensile strength and can be used independently without wire netting or other mass insulation. It serves as an effective thermal insulation as well as a vapor barrier membrane. It is hygienic, durable, fibre-free, nontoxic, resistance to fungus, insects, nesting rodents and other pests.

### FIRE PROPERTY

**BW2FR-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

**BW2FR-10** is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 1.923 m<sup>2</sup>K/W
- Thermal transmittance, U-value: 0.520 W/m<sup>2</sup>K
- Thermal conductivity, K-value: 0.054 W/mK

### BQ SPECIFICATION

To supply & install AIR-TAC BUBBLE FOIL BW2FR-10 under MS2095:2014 and CIDB certified double-sided aluminium bubble foil reinforced with woven fabric 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 radiant barrier 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, BW2FR-10 (MS 2095 : 2014)

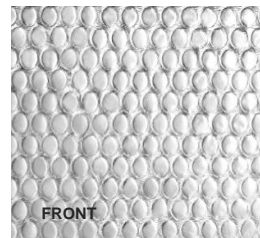
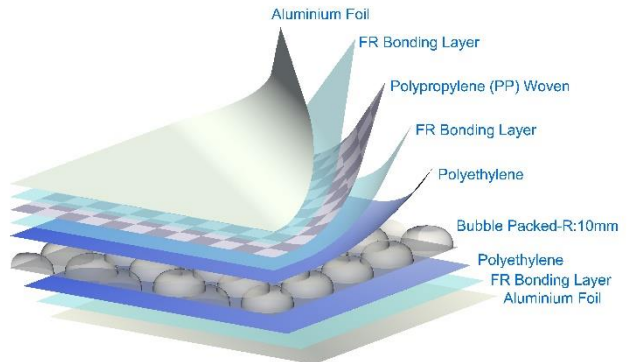
|                                |                  |                  |               |
|--------------------------------|------------------|------------------|---------------|
| Reflectivity / Emissivity      | ASTM C1371       | ≥ 95% / ≤ 5%     |               |
| Tensile Strength (MD)          | AS/NZ 1301.448s  | ≥ 13.0 kN/m      | Extra Heavy   |
| Tensile Strength (CD)          | AS/NZ 1301.448s  | ≥ 10.5 kN/m      | Extra Heavy   |
| Edge Tear Resistance (MD)      | TAPPI T470       | ≥ 90 N           | Extra Heavy   |
| Edge Tear Resistance (CD)      | TAPPI T470       | ≥ 90 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 | 210 - 340 GSM    |               |
| Thickness                      | Digital caliper  | 3 ± 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)**

BW2FR-10



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