

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: 2.004 m²K/W
- Thermal transmittance, U-value: 0.499 W/m²K
- Thermal conductivity, K-value: 0.050 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

