



FOIL LAMINATE INDUSTRIES SDN BHD
(343587-X)



AIR – TAC BUBBLE FOIL BW2FR-10

Key Benefits



Sound Insulation



Thermal Efficiency



Fire Retardant



Easy Installation



Radiant Heat Reflectivity



Energy Cost Saving



Self Support



Vapor Barrier



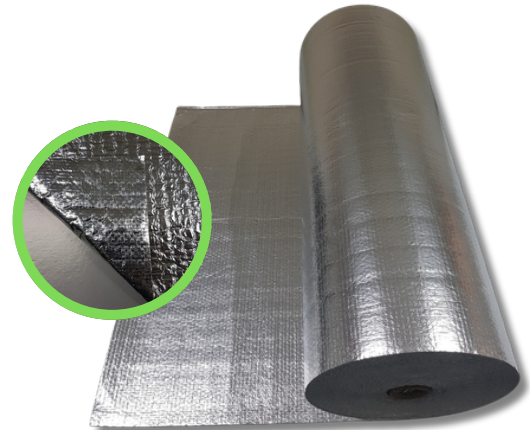
Tear Resistant

High-Performance Bubble Woven Fire-Retardant Reflective Insulation for Roofing Systems

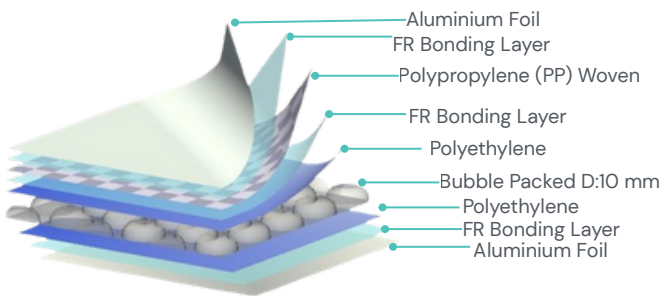
- Extra heavy duty tensile fire retardant double-sided, single layer small air bubble aluminium foil reinforced with polypropylene woven fabric.
- **BW2FR-10** is a (9) **nine-layer**, selfsupporting, fire-retardant reflective insulation with pure aluminium foil on both sides, high-density polyethylene air bubbles, and reinforced polypropylene (PP) woven fabric for enhanced tensile strength.
- Designed for independent use without wire netting or additional insulation, it functions as both an effective thermal insulator and a vapor barrier.
- This material is durable, hygienic, fiber-free, and non-toxic, offering resistance to fungus, insects, rodents, and other pests.

Standard Size: 1.22m (Width) x 40m (Length)

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



Cross Section



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, dominant tensile strength for extra heavy duty and noise reduction for 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.





BQ Specification

Approved MS2095 and CIDB BW2FR-10 (260±30 g/m², 3.0-4.0 mm total thickness) fibre-free, extra heavy duty performance high tensile fire retardant with high reflective double-sided pure aluminium foil consists with single layer of 10mm diameter small air bubble reinforced polypropylene woven fabric.

Product Technical Data

PROPERTY	TEST METHOD	RESULT/SPECIFICATION	GRADE/REMARK
Reflectivity/ Emissivity	ASTM C 1371	97% / 3%	
Tensile Strength	(MD) AS/NZS 1301.448s	≥ 15.0kN/m	Extra Heavy
	(CD) AS/NZS 1301.448s	≥ 13.0 kN/m	Extra Heavy
Edge Tear Resistance	(MD) TAPPI T470	≥ 330.0 ± 50.0 N	Extra Heavy
	(CD) TAPPI T470	≥ 280.0 ± 50.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	0.043 µg/N.s (23.09 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	260± 30 g/m ²	
Thickness	In House	3.0 - 4.0 mm	
Sound Reduction	In House	11 - 12 %	Test at 87db

* 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

BBW2FR-10 is tested in accordance to ISO 8301

- Thermal resistance, R-value : 2.404 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.



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