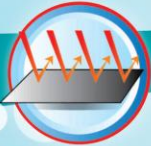


# SUN-FOIL<sup>®</sup>

Bubble Foam Series

New and Improved Version

Certified by CIDB



Excellent Reflectivity



Chicken Wire Mesh  
(Not Required)



Edge Tear Resistance  
(Resulting in Low Wastage)



Moist Barrier  
Non-Delamination  
(When Soak In Water)



Easy Installation  
(Cost Effective)



Noise Reduction

## BEB-FR

### Product Description

SUN-FOIL<sup>®</sup> BEB-FR is used as insulation against radiant heat transfer and can be used to its greatest advantage in instances where radiation is the predominant means of heat transfer.

SUN-FOIL<sup>®</sup> BEB-FR is an excellent reflector of all long wave radiant heat that strikes it - REFLECTIVE OF UP TO 99% of all radiant heat.

### Fire Attributes

BEB-FR is classified as Class "O" in accordance to fire tests on building material and structures.

- i.) British Standard, BS 476-6 : Fire Propagation Test
- ii.) British Standard, BS 476-7 : Surface Spread of Flame Test

### Thermal Properties

BEB-FR is tested in accordance to MS 2095, ISO 8301 / MS ISO 8302 for thermal resistance, R-value  $1.106 \pm 0.09 \text{ m}^2\text{K/w}$

### Awards & Certificates

- Malaysia Standard - MS 2095, SIRIM QAS International Sdn. Bhd.
- ISO 9001: 2015, Guardian Independent Certification
- Jabatan Bomba dan Penyelamat Malaysia
- CIDB Malaysia
- Malaysia Green Building Confederation (MGBC)
- Asian Reflective Foil Association (ARFA)



SIRIM  
MS 2095

Certified by



BOMBA



ISO 9001 : 2015



BUATAN  
MALAYSIA

CIDB PPS REG. NO:  
1160504ML0121

# BUBBLE FOAM FOIL (Fire Retardant)

**SUN-FOIL® BEB-FR** is double sided made by high reflectivity pure aluminium and a high quality aluminium film bonded with two layers of 10mm bubble diameter FR polyethylene bubble sheet and a layer of EPE Foam. It provides excellent insulation properties and effective radiant barrier.

**SUN-FOIL® BEB-FR** is designed light-weight. It is easy to install as it does not require mesh due to high tensile strength and edge tear resistance.

**SUN-FOIL® BEB-FR** is also flame retardant, waterproof, non-toxic, bacteria free, fungus and corrosion resistant.

TECHNICAL DATA			
Description	Test Method	Unit	Value
Grammage	In House	g/m <sup>2</sup>	500 ± 50
Thickness	In House	mm	12.0 ± 1.0
Tensile Strength	AS/NZS 1301:448s	kN/m	MD ≥ 6.0 ± 1.0 CD ≥ 6.0 ± 1.0
Edge Tear	TAPPI T470	N	MD ≥ 200 ± 50 CD ≥ 200 ± 50

Technical Information provided represent 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 RETARDANT TEST FOR BEB-FR		
CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material Sub-Index, $i_1, i_2, i_3$ Overall Performance Index	BS 476 ; Part 6	< 6 < 12 (Sirim Report 2020FE0690)
Surface Flame Spread Test	BS 476 ; Part 7	Class 1 (Sirim Report 2020FE0691)
Classification of Fire Hazard		Class O



## BEB-FR

Standard Roll Size: W 1.20m x L 25m



- Pure Aluminium
- FR PE Tie Layer
- FR Bubble Sheet
- FR PE Tie Layer
- EPE Foam
- PE Tie Layer
- FR Bubble Sheet
- PE Tie Layer
- Aluminium Film



**DEXSTEEL (M) SDN BHD** (1492281-M)

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