

KFOIL APRA K531

**FIRE RETARDANT DOUBLE SIDED REFLECTIVE
VAPOUR BARRIER ALUMINIUM PAPER FOIL,
8x6x6 FIBERGLASS SCRIM REINFORCED (6 layers)**

- Double Sided **6 Layers** Aluminium Foil (99% Pure Aluminium) with high reflectivity (>0.97) and low emissivity (<0.03) surface.
- Reinforced with **tridirectional (8x8)** fiberglass scrim to increase the mechanical product strength and durability.
- Comply with Fire Retardant properties in accordance to **BS 476 Part 6 & 7 (CLASS "O")**

SARKING MEMBRANE | VAPOR BARRIER | HEAT INSULATION | ENERGY EFFICIENCY
COST EFFECTIVE | LOW MAINTENANCE FEE | DURABLE | ECO FRIENDLY
LIGHT IN WEIGHT | EASY INSTALLATION | TRANSPORTABILITY

- Double sided aluminium foil (**99% pure aluminium**) with high reflectivity (>0.97) and low emissivity surface (<0.03).
- APRA K531 is **six (6) layers** with two external layer using aluminium foil bonded to kraft paper reinforced by fiberglass scrim.
- Reinforced with premium quality **8x8x6 fiberglass scrim** (bi-directional pattern) to increase product tensile and tear strength.
- APRA K531 character is stable and will not delaminate when high temperature or high humidity.
- Comply **Fire Retardant BS476 part 6 & 7**.
- Certification: **BOMBA, TUV SUD SINGAPORE**.
- Light weight, ease for transportation and during installation .
- Product character is stable and will not delimitate when expose to high temperature or humidity.
- **Eco friendly**, no crumbling or itchy material use.

CERTIFICATION



British Standard Part 6 & Part 7 (Class O)
BS 476 Part 6 - Fire Propagation
BS 476 Part 7 - Surface Spread of Flame

**BS 476: FIRE TEST ON
BUILDING MATERIALS & STRUCTURES**

PART 4

Non-combustibility test for materials

PART 6

Method of test for fire propagation for products

PART 7

Method of test to determine the classification of the surface spread of flame of products

CLASS 'O'

Certified Class 'O' in accordance to BS 476 part 6 & 7 by BOMBA

TECHNICAL DATA

REINFORCEMENT	Fiberglass Scrim (8x6x6)
GRAMMAGE	150 – 170 gsm
THICKNESS	200 – 250 micron
THERMAL RESISTANCE (ISO 8301, MS ISO8302)	R-Value: ~ 2.102 m ² K/W U-Value: ~ 0.476 W/m ² K K-Value: ~ 0.048 W/mK
REFLECTIVITY (ASTM C 1371)	0.98
EMISSIVITY (ASTM C 1371)	0.02
RESISTANCE TO DRY LAMINATION (AS/NZS 4201.1)	No Delamination
RESISTANCE TO WET LAMINATION (AS/NZS 4201.1)	No Delamination
VAPOUR BARRIER (ASTM E96)	0.002 - 0.14 µg/N.s
SHRINKAGE (AS/NZS 4201.3)	MD: < 0.5% CD: < 0.5%
TENSILE STRENGTH (AS/NZS 1301.448s)	MD: > 5 kN/m CD: > 2 kN/m
EDGE TEAR RESISTANCE (TAPPI T470)	MD: > 30 N CD: > 20 N
FOLDING ENDURANCE (AS/NZS 1301.423rp)	MD: > 2.00 log ₁₀ 100 CD: > 1.70 log ₁₀ 50

Technical information provided in this data sheet are typical laboratory averages and are used subject to variation. While the information is believed to be reliable and correct. No guarantee or warranty (expressed or implied) can be made regarding specific applications or patent rights. Product specifications are subject to change without prior notice.

COMMON SIZE

Width(m)	Length(m)	Optimum pallet packing
1.22 ± 1%	45 ± 2%	130 Rolls
1.22 ± 1%	60 ± 2%	100 Rolls

Customise size are available upon request within machine limits.

APPLICATION

- HVAC Duct Insulation
- Roof insulation
- Metal Roofing
- Concrete/Clay tiles roofing
- Foil facing for bulk installation
- Building wrapping
- Wall insulation
- Heat Insulation Industrial material
- Cool room Insulation
- Thermal Tank
- Sauna Room
- Etc

RECOGNITION

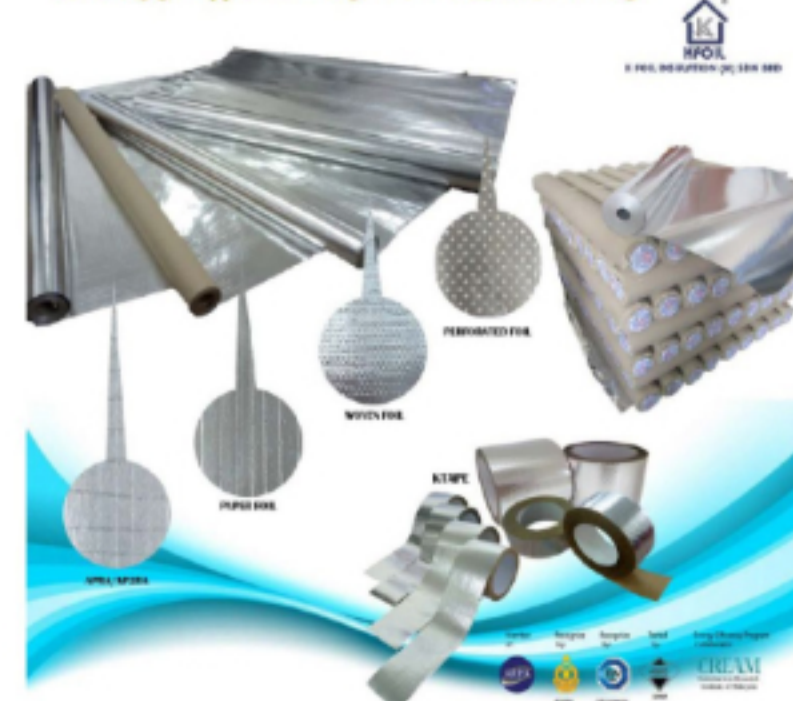


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RADIANT BARRIER - ALUMINUM INSULATION FOIL

Energy Efficiency In Passive Way



WHY IS IT GREEN?

- Energy Efficiency. Reduce radiant heat penetration into building for cooler indoor environment – less requirement for cooling appliances.
- Effective Radiant Heat barrier. Surface reflectivity of >97% (low emissivity) of aluminium foil effectively reflects radiant heat & minimising conduction & convection heat transfer
- High Recycle content. Use of recycle material 50 – 75% w/w of finished goods

PRODUCT FEATURES

- 99% Pure aluminium. Use only pure aluminium (low emissivity) properties giving superior radiant heat barrier / thermal insulation.
- Non thermal conductor material. Use only non-thermal conductor material (paper, woven fabric, plastic film, PE bubble) thus prevent self-heat generating inside the building.
- High tensile & tear strength. Reinforced structure for better performance & prevent damage especially during installation.
- Light weight & flexible. Easy to carry for installation on the high roof structure.
- Fire Retardant grade.
- Non-toxic content. Use of non-toxic material in the manufacturing process.
- Moisture/vapour barrier properties

PRODUCT CERTIFICATION & COMPLIANCE

BS 476 Part 7:1997 (Surface Spread of Flame)
BS 476 Part 6:1989+A1:2009 (Fire Propagation)
BOMBA (Bahan Binaan Kelas 'O')
TUV SUD PSB Singapore
ASTM C 1371 (Emittance)
SIRIM Product Certification License (MS 2095: 2014 Radiant Barrier)
CIDB Perakuan Pematuhan Standard (Bahan Binaan)

APPLICABLE OBI CREDITS

NRNC	EE1, MR3
RNC	EE1, EE2, MR2, MR3
INC	EE1, MR2, MR3
NREB	EE1, MR2
IEB	EE1, MR2
INTERIORS	EE4, MR2, MR3

COMPANY DETAILS

K FOIL INSULATION (MALAYSIA) SDN BHD

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