TAC-FOIL

FIRE RETARDANT | VAPOR BARRIER | TEAR RESISTANCE | PUNCTURE RESISTANCE

TAC-828BS CLASS O

Fire Retardant Class 'O'

Fire retardant double-sided aluminium foil / film reinforced with glass fibre scrim

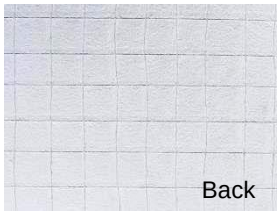
TAC-828BS CLASS O is a six (6) layer fire retardant double-sided radiant barrier. It is an excellent thermal insulation fire retardant performance and very good tensile strength which has superior radiant heat reflective properties by reflecting ≥ 95% radiant heat.

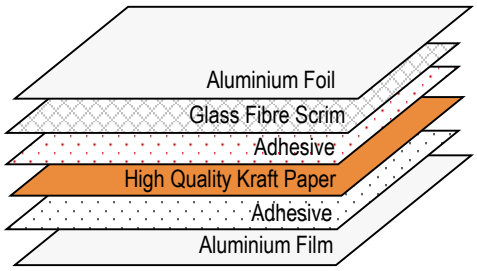
TAC-828BS CLASS O is a TUV certified product with certificate of conformity (COC) in accordance to British Standard (BS) 476 Part 6 and Part 7 for Fire Safety Hazards Requirement

TAC-828BS CLASS O is a lamination of aluminium foil and aluminium film with high quality kraft paper and glass fibre scrim. The property of pure aluminium foil enhance the reflective index and good on fire retardancy while the aluminium film acts as a vapor barrier, improving on tear and puncture resistance. Glass fibre scrim, a product of glass fibre filament together with lamination of aluminium foil / film with kraft paper provides greater tensile strength. It is flexible and lightweight make installation become easy.

Applications

- As radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- Provides a protective insulation barrier that meet the requirement for pipe work and ducting insulation such as air-conditioning, petro-pipe, steam pipe and others.





SPECIFICATION	STANDARD	UNIT	RANGE
Grammage	Electronic Scale	GSM	100 - 130
Thickness	Digital Caliper	micron	180 - 210
Resistance to Dry Delamination	90°c for 24 hours	-	No Delamination
Resistance to Wet delamination	24H at 90±2%RH	-	No Delamination
Water Vapour Transmission (WVTR)	ASTM E96	g/h.m2	0.36
Reflectivity / Emissivity	Supplier specification	%	≥ 95% / ≤ 5%
Tensile Strength Machine Direction Cross Direction	 ASTM D882 ASTM D882	 N/25mm N/25mm	 100 - 130 75 - 95
Elongation Machine Direction Cross Direction	 ASTM D882 ASTM D882	 % %	 2 - 5 2 - 5
Tear Strength Machine Direction Cross Direction	 ASTM D1004 ASTM D1004	 N N	 20 - 40 15 - 30
Puncture Resistance	ASTM F1306	N	10 - 20
Classification of Fire Hazard	BS 476 Part 6 & Part 7	Class	O

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.

Reflective ~ Protective ~ Excellence

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TAC-880(BS/TS)

FIRE RETARDANT CLASS 0

Fire retardant double-sided aluminium foil reinforced with glass fibre scrim

SINGAPORE GREEN BUILDING PRODUCT SGBC VERY GOOD

VAPOR BARRIER | PUNCTURE RESISTANCE | TEAR RESISTANCE | FIRE RETARDANT | INSULATION MATERIAL | LIGHT WEIGHT | REFLECT SURFACE

TAC-FOIL: TAC-880(BS/TS)			
Reflectivity / Emissivity	ASTM C1371	97% / 3%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 7.5 kN/m	Light
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 6.0 kN/m	Medium
Edge Tear Resistance (MD)	TAPPI T470	≥ 45.0 N	Light
Edge Tear Resistance (CD)	TAPPI T470	≥ 45.0 N	Light
Vapor Barrier (WVTR)	ASTM E96	7.2 MN.s/g (0.14 µg/N.s)	Medium
Surface Water Absorbency	AS/NZS 4201.6	≥ 100 g/m²	High
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
Folding Endurance	AS/NZS 1301.423rp	MD > 2.0 Log 100 CD > 1.7 Log 50	Passed
Grammage	Electronic scale	130 ± 20 GSM	
Thickness	Digital caliper	150 ± 40 µm	

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Standard Size: 1.24m (Width) X 60m (Length)

PRODUCT DESCRIPTION

TAC-880(BS/TS) is a six (6) layer fire retardant double-sided radiant barrier. It is an excellent thermal insulation foil either used on its own or laminated onto other insulation materials. It has superior radiant heat reflective properties by reflecting ≥ 97% of radiant heat.

TAC-880(BS/TS) is a lamination of both sides pure aluminium foil and high quality kraft paper reinforced with glass fibre scrim. The property of pure aluminium enhances the reflective index. The glass fibre scrim and high quality kraft paper increases its tensile strength.

TAC-880(BS/TS) is lightweight, light tensile strength and does an excellent job at providing thermal insulation for roofing system.

FIRE PROPERTY

TAC-880 (BS/TS) is classified as **CLASS '0'** 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

AWARDS

- TUV SUD PSB
- Singapore Green Building Product

THERMAL PROPERTY

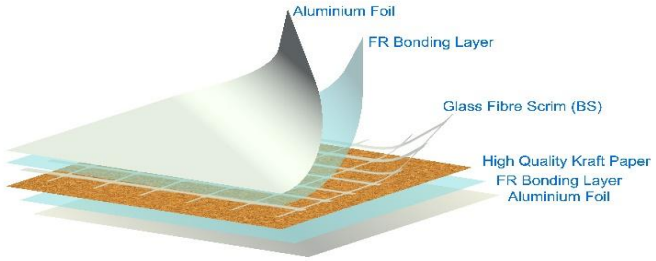
TAC-880 (BS/TS) is tested in accordance to **ISO 8301**

- Thermal resistance, R-value: 2.392 m²K/w

The above value are based on MS2095 testing requirements, which include a total air gap of 100mm

APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.



FRONT

BACK

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REFLECTIVE INSULATION MANUFACTURERS OF MALAYSIA