

# AEROREFLECT



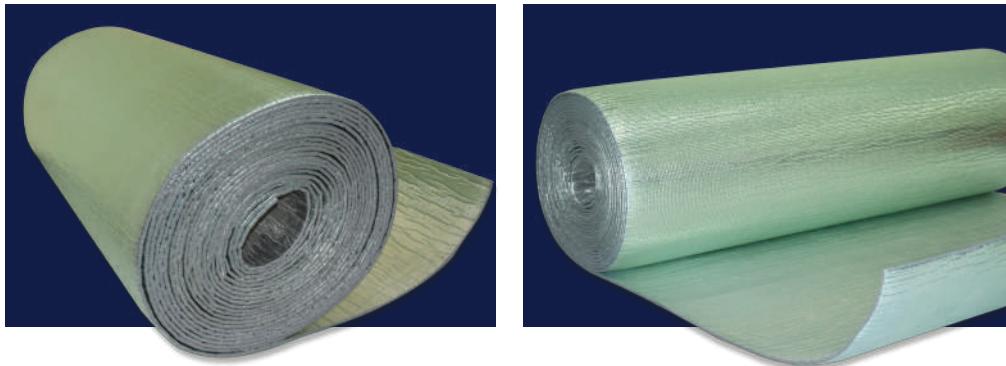
*Reflective Roof  
Thermal Insulation Foam*

Reflective insulation range by **AEROFOAM®**

🌐 [www.aerofoam.ae](http://www.aerofoam.ae)

## PRODUCT DESCRIPTION

AeroReflect is a closed cell, cross-linked polyolefin foam core between reflective reinforced aluminum foil laminates. Foam core is a high-quality product suitable for use in roof and wall applications.



## PRODUCT CONFIGURATION

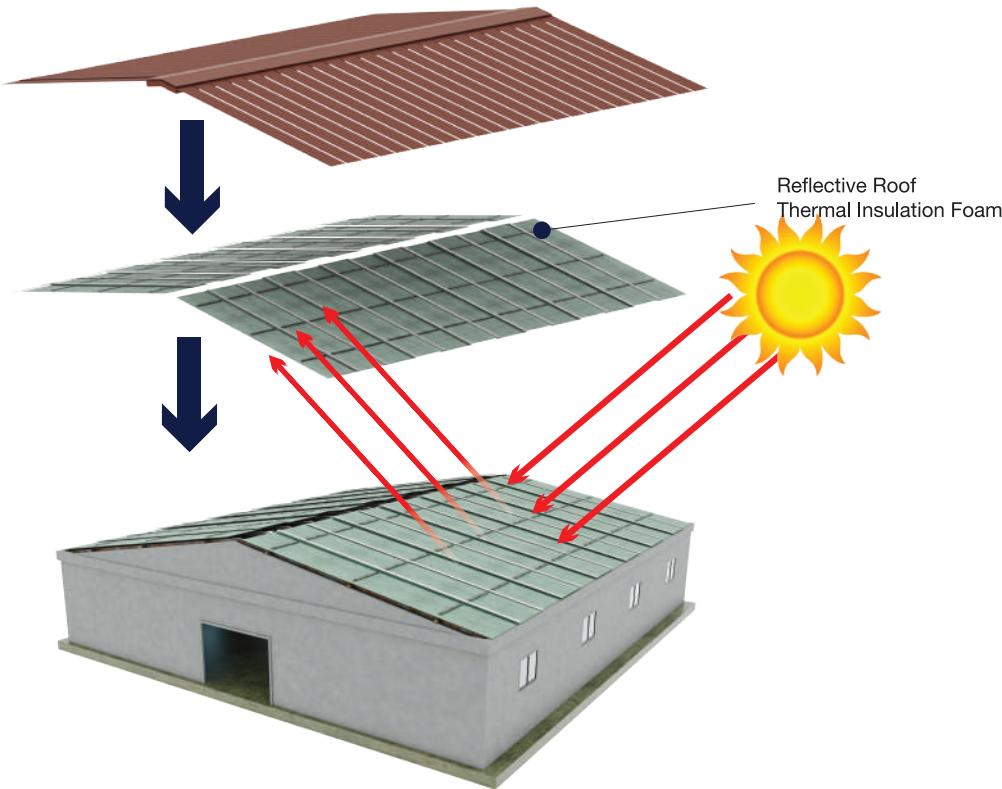
AeroReflect thermal insulation is laminated with aluminum foil. Reflectivity of foil is 95% and emissivity of 0.05 to one side and 94% reflectivity and emissivity of 0.06 to the other, which complies with ASTM Standard E 408. The core is made of 4.5, 7.5 and 8.5 mm thick cross-linked, closed cell polyolefin foam. Foam core multipurpose incorporates a 150 mm overlap a long one side edge to maximize coverage, minimize wastage and allow for sealed edge protection to improve aesthetics in exposed applications.

AeroReflect uses advanced laminating technology and provides superior resistance to heat, humidity and delamination. An anti-glare coating can be applied upon request to one side of the product to reduce the level of glare experienced during installation.

## HOW DOES IT WORK?

AeroReflect's main purpose is to reflect the sun's radiant heat. While installed correctly it can reduce up to 95% of the heat. Moreover, it acts as effective water and vapor barrier.

Therefore, as a result, the temperature inside of the building can be reduced and maintained well during sunny days and hot seasons.



## FEATURES

- Excellent thermal efficiency
- Low emissivity & high reflectivity
- Water resistant
- Corrosion resistant
- Easy to install
- Lightweight
- Odorless, fiber free & non-toxic
- Long lifespan

## EXAMPLES OF APPLICATIONS



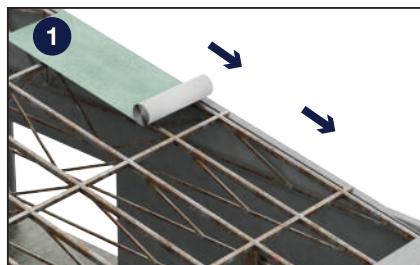
## TECHNICAL DATA

Property	Value/Assessment	Tested acc. to:
Early fire hazard indices	0	
Ignitability index	0	
Spread of flame	0	AS/NZ 1530.3
Heat evolved index	0	
Smoke developed index	1	
Infrared reflectance	Anti-glare side - 0.94% Reflective side - 0.95%	ASTM E 408 Method A
Near normal emittance	Anti-glare side - 0.06% Reflective side - 0.05%	
Tensile strength	Machine direction - 8.7 kN/m Lateral direction - 8.8 kN/m	AS 1301.448s
Tearing resistance	Machine direction - 495 N Lateral direction - 391 N	AS/NZ 4200.1
Burst strength	1.1 kN	AS 3706.4 (CBR)
Bursting force	541 N	AS 2001.2.19
Water vapor transmission	0.01009 µg/N.s	ASTM E 96
Water control	Pass	AS/NZ 4201.4
Surface water absorbency	99.2 g/m <sup>2</sup>	AS/NZ 4201.6
Dry delamination	Pass	AS/NZ 4201.1
Wet delamination	<0.2%	AS/NZ 4201.2
Shrinkage	Pass	AS/NZ 4201.3
Resistance to surface corrosion	Pass	AS/NZ 4859.1

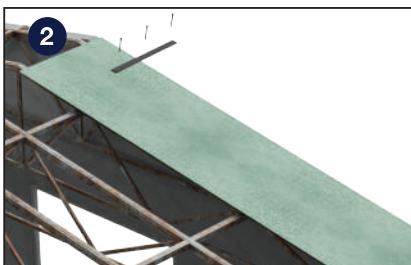
Note: Presented values are for AeroReflect 8.

Storage: AeroReflect should be stored upright and covered in a clean, dry place in the original packaging.

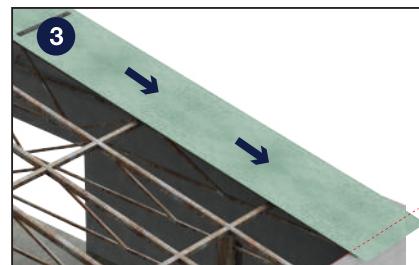
## INSTALLATION



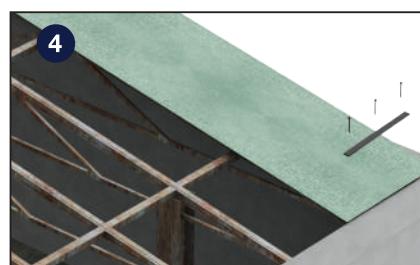
Unroll AeroReflect on the structure of the roof.



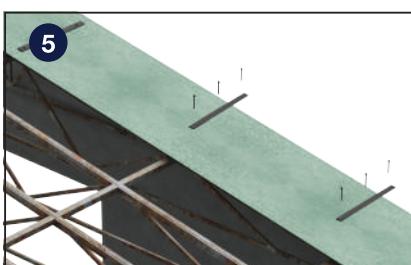
Secure the top end by screwing a termination bar on the ridge beam end.



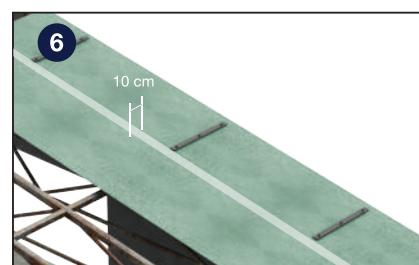
Tighten and align the roll. Cut the excess part.



Secure the lower end by screwing a termination bar.



Secure the middle sections as per metal structure underneath.



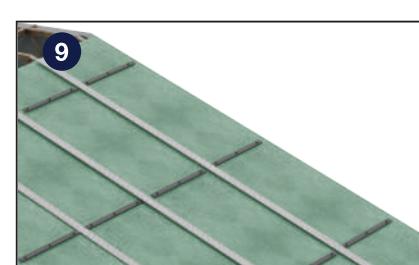
Continue the next roll overlapping the previous roll.



Repeat the process of securing the end and middle sections.



Apply Aerofoam® Tape on the overlap.



Repeat the whole process until the desired area is covered.

## AVAILABLE SIZES

	AeroReflect 4	AeroReflect 7	AeroReflect 8
Nominal thickness (mm)	4.5	7.5	8.5
Width (mm)	1350	1350	1350
Overlap/flare (mm)	150	150	150
Length (mm)	22.25	22.25	22.25
Area per roll (m <sup>2</sup> )	30	30	30

## THERMAL PERFORMANCE

### AT 23 °C

(IN ACCORDANCE WITH ASTM C518)

	R-values	U-values	K-values
AeroReflect 4	0.15	6.49	0.030 w/m·K
AeroReflect 7	0.21	5.25	0.035 w/m·K

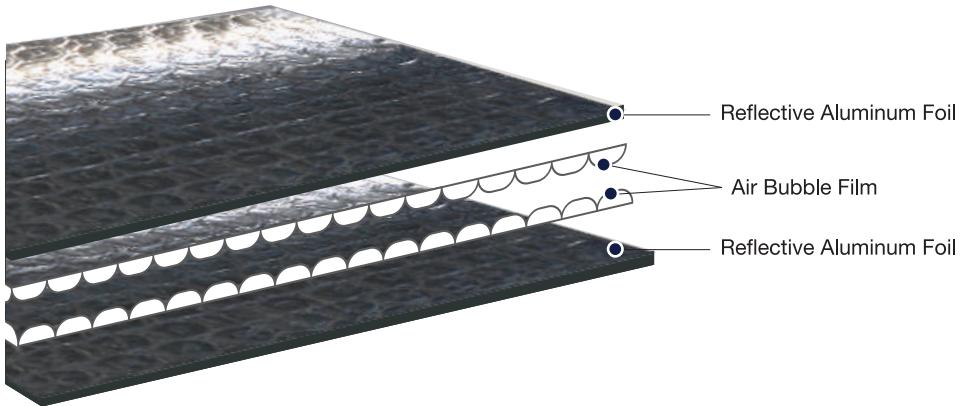
Scan to watch the installation video.



## OTHER AVAILABLE VARIANTS: AEROREFLECT BUBBLE INSULATION

AeroReflect Bubble Insulation is a reflective insulation product manufactured with encapsulated air bubbles between reflective foil laminate. It is designed to reduce high temperatures on the facades and roofing during sunny and hot days. It additionally provides excellent water vapor barrier.

## EXAMPLES OF AVAILABLE CONFIGURATION



## AEROREFLECT WITH SINGLE LAYER BUBBLE

Product Name	Picture	Description	Thickness (mm)	Bubble size	Foil	Roll size	
						Width (m)	Length (m)
AeroReflect Standard		One layer of air bubble film laminated with reflective aluminum foil on one side	4	Small	One Side	1.2	40
AeroReflect Standard +		One layer of air bubble film laminated with reflective aluminum foil on both side	4	Small	Two Sides	1.2	40
AeroReflect Standard XL		One layer of big air bubble film laminated with reflective aluminum foil on one side	10	Big	One Side	1.2	40
AeroReflect Standard XL+		One layer of big air bubble film laminated with reflective aluminum foil on both side	10	Big	Two Sides	1.2	40

## APPLICATIONS

- Residential roofs
- Commercial roofs
- Warehouse & industrial
- Multi-layer walls
- Metal & cavity facades
- Non-habitable floors

## AEROREFLECT WITH DOUBLE LAYER BUBBLE

Product Name	Picture	Description	Thickness (mm)	Bubble size	Foil	Roll size	
						Width (m)	Length (m)
AeroReflect Twin		Two layers of air bubble film laminated with reflective aluminum foil on one side	8	Small	One Side	1.2	40
AeroReflect Twin +		Two layers of air bubble film laminated with reflective aluminum foil on both side	8	Small	Two Sides	1.2	40
AeroReflect Twin XL		Two layers of big air bubble film laminated with reflective aluminum foil on one side	20	Big	One Side	1.2	30
AeroReflect Twin XL+		Two layers of big air bubble film laminated with reflective aluminum foil on both side	20	Big	Two Sides	1.2	30
AeroReflect Standard XL AG+		One layer of big air bubble film encapsulated between heavy duty reflective reinforced aluminum foil laminates	10	Big	Two Sides	1.2	40

