



**We are
the Best
and the Most
Experienced
heat insulation
experts
in Sri Lanka**

Sunfoil

Double sided Aluminium.

SUNFOIL is also supplied with double sided Aluminium surface where the bottom surface is made with very low emission Aluminium foil, providing very high resistance to downward heat emission from the bottom surface. This added option enhances SUNFOIL's System - R value and thermal insulating performance.



HIGH
THERMAL
RESISTANCE



ANTI
HUMIDITY

High System
R-Value.

Anti Humidity

Sound
Suppressed

Unaffected by humidity.

SUNFOIL has very low water permeability and water absorption, thus the thermal performance doesn't drop even at high humid environs. There is absolutely no need of applying vapour barrier layers.

High System R-Value.

SUNFOIL insulation system has unique thermal resistance known as 'Total System R-Value' owing to its inherent design. If installed with its recommended air gap gives a very strong resistance to radiant heat flow which is the principal factor that discomfort humans inside. SUNFOIL cuts down over 97% of the infrared radiant heat by reflecting it

Double Sided Aluminium Foil



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Sunfoam

SunFoam made of closed cell polyethylene foam, is an exceptional packaging material. Being available in all shapes and sizes like sheets, rolls, slabs, tubes, hoses, rods and nets offers endless possibilities to meet any and all customer needs.

SunFoam is flexible, light in weight and has an excellent shock absorption effect. It is resistant to chemicals and mildew and should it be necessary, SunFoam can be a fire retardant and resistant to UV. As a result it becomes ideal for packaging extended to all things; therefore our protective packaging team has developed customized solutions to prevent many types of transit damages ranging from breakages and scratches to dents, abrasions and corrosion.



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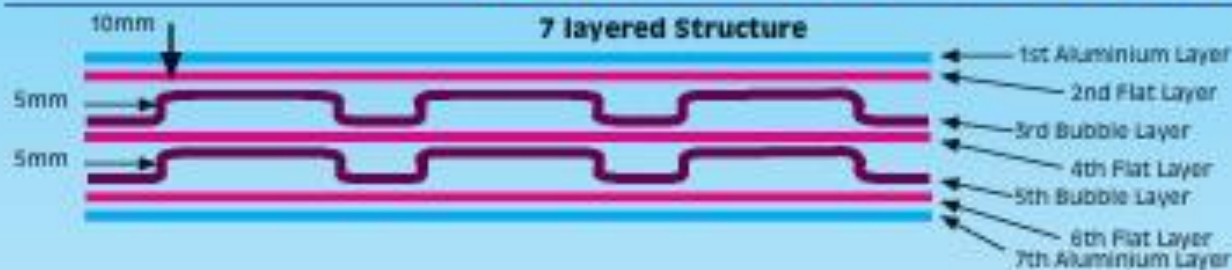
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Sun Double Bubble



7-layer Sun Double Bubble insulation combines the reflective properties of aluminium foil with the insulating capabilities of air bubbles, creating a lightweight and effective barrier against heat transfer. It's commonly used in building insulation, and various other applications. The key features include fire resistance, high reflectivity, water resistance, and ease of installation.

Features:

Air Bubble Insulation:

The air bubbles trapped within the material create a thermal break, minimizing heat transfer through conduction and convection.

Reflective Barrier:

The aluminium foil reflects up to 97% of radiant heat, reducing heat transfer through radiation.

R-value:

The R value represents the materials resistance to heat flow indicating how effective it is typically ranging from 12.5% - 14.1%

Fire Performance:

Fire Retardant: Class - A
(classification of surface spread of flame)

Customized Product:

We can provide cut lengths as required by customer.

Durability:

It's resistant to mould, mildew, and insects, ensuring long-term performance.

Material:

Typically consists of aluminium foil, both sides laminated to five-layers of polyethylene air bubble film.

Thickness: 8mm-10mm

Temperature Range:

Can withstand temperatures from:
(-50°C to 110°C)
(-58°F to 230°F)

Waterproof:

It is waterproof, preventing moisture retention and potential damage.



RESISTANCE TO MOULD AND FUNGUS
NO INSECTS/VERMIN/RODENTS

**Fiber free, non-allergenic, non-irritant
Anti-bacterial & Anti-fungal**

Lightweight and Flexible:

The material is easy to handle, cut and install, making it suitable for various applications.

4 in 1 Insulation:

Thermal insulation, vapour barrier, radiant barrier and Air barrier.

The Double Bubble option is the go-to for those seeking enhanced thermal performance. It features two layers of air bubbles between the reflective surfaces, providing additional strength and insulation value.

This type is particularly well-suited for commercial and industrial applications where higher R-values are required. The added layer also provides increased durability, making it a long-lasting solution for demanding environments.

Both types of reflective bubble insulation offer a vapor retarder solution for those seeking to reduce condensation in their buildings.



Sunglasswool

Material

Fiberising

Forming

Material

The basic raw material are inorganic compositions such as silicon dioxide, aluminium oxide, calcium oxide, magnesium oxide, sodium oxide and P₂O₅.

Fiberising

The melted glass goes into a channel leading to the fiberising area, so the glass reaches the required temperature to be converted into fibres. Fiberising is made according to original HL process which combines a centrifugal drawing of the glass through a rotating device drilled with holes, called spinner, and a fibre attenuation to high performance gas jet streams.

Composite of Glass Wool

Composite Element	Rate (%)
SiO ₂	62.54
CaO	7.08
MgO	3.94
K ₂ O	1.14
Na ₂ O	15.63
Fe ₂ O ₃	0.54
Al ₂ O ₃	3.3
B ₂ O ₃	5.85
Others	0.15

Forming

Mat forming is realised within the forming section and some specific tools designed to rearrange fibres in the mat. The structure and the density of the products are adapted in each case, depending on the requirement of the final use.



Composites greatly affect the Glass Wool:

This rate of composites contain high quantity of SiO₂. The Glass Wool produced in this composite are softer with more return back force. The fibre glass is much thinner and less harmful and the Colour of Glass Wool is much brighter and beautiful.

Regular size of Glass Wool

Density	Thickness	Length	Width
16	25-300	5-90	0.6 - 1.22
24	25-300	5-90	0.6 - 1.22
32	25-300	5-90	0.6 - 1.22
48	25-300	5-90	0.6 - 1.22

Thermal conductivity (K-Values) and Thermal Resistance (R-Values) of Twiga Insulation.

Max Service Temperature	450°C Outer Foil Temp Limited to 100°C	ASTM C611
Combustibility	Non-Combustible	ASTM E84
Rigidity	Semi-Rigid	ASTM C1101
Shot Content	Free of Shot	ASTM C612
Fungi growth	does not encourage Fungi growth	ASTM C665
NRC Value	0.75 - 1.24	ASTM C425
Thermal conductivity	<0.044	ASTM C 510
Moisture absorption	Less than 0.2% by volume	ASTM C 533

Thermal Conductivity in W/MK blanket

Mean Temp. in Degree (C)	Density in kg/m ³			
	16	24	32	48
25	0.039	0.033	0.032	0.03
50	0.043	0.039	0.035	0.033
100	0.057	0.047	0.045	0.04

Thermal Resistance in sq.m K/W Thickness 25mm

Mean Temp. in Degree (C)	Density in kg/m ³			
	16	24	32	48
25	0.64	0.76	0.78	0.85
50	0.58	0.68	0.71	0.76
100	0.44	0.53	0.53	0.63

Thermal Resistance in sq.m K/W Thickness 50mm

Mean Temp. in Degree (C)	Density in kg/m ³			
	16	24	32	48
25	1.28	1.52	1.56	1.67
50	1.16	1.36	1.43	1.52
100	0.88	1.06	1.06	1.25

Acoustic Insulation Vales

Specification Density X Thickness	Average NRC Frequency Range 100Hz - 5,000Hz
16kg/m ³ X 50mm	0.82
24kg/m ³ X 50mm	1.00
32kg/m ³ X 50mm	1.05
48kg/m ³ X 50mm	1.20



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Sun fishbag/ cooler pack

The original SunFoil Insulated Fish Bags are designed to store your catch in a hygienic environment ensuring fresher, long lasting fish or meat. They come as 1mm Single side laminated or 3mm Double Side Laminated bags.



Insulated Fish Pack

SunFoil Fish Cooler Pack/ Insulated Fish Pack.

SunFoil is dedicated to designing, manufacturing and supplying a wide range of eco friendly insulation and packaging solutions. Thus, Sunfoil Fish Cooler Pack is considered an essential companion to fishing industry when considering transportation and shipping as it is paramount to ensure transported fish remains fresh throughout. The Fish Packs are completely hand-made with marine grade MPET Foil backed with closed cell PE Foam, which is extremely durable, UV resistant and water/ leak proof, measuring 230cm in length and 85cm in width. There is absolutely no risk of damaging the fish as SunFoil Fish Cooler Pack will ensure maintenance of correct temperature and protection from impact during long hours of transport. It has very low thermal conductivity that enables to keep dry ice/ ice slurry stored inside the pack from liquefying and the closed cell PE backing has the shock absorption ability to protect fish from decaying.



Tuna Pack



Fish Bag

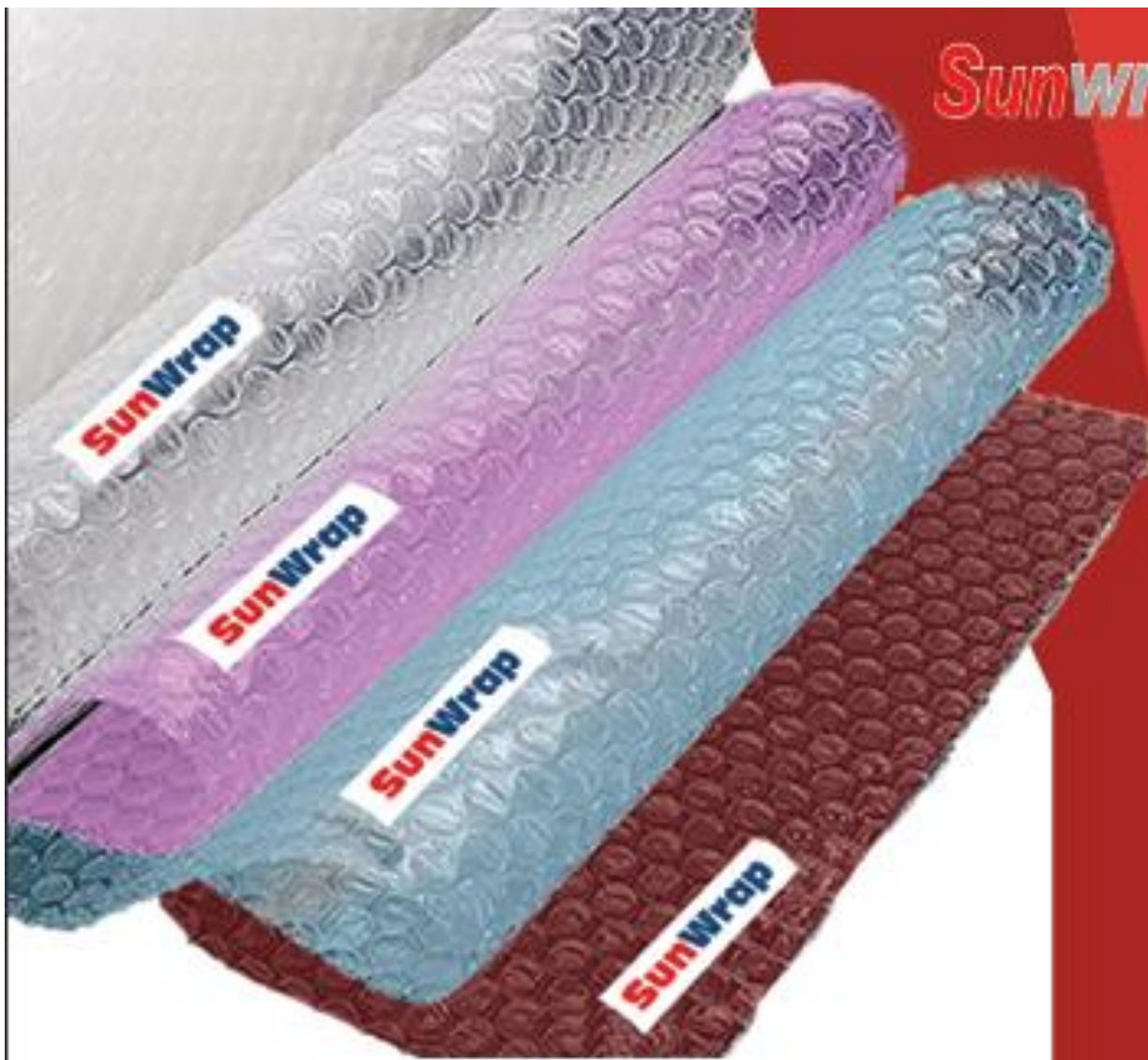
- This Bag can hold Ice or Ice Slurry,
- Ideal for small or large boats or any hunting vessel,
- Floored bottom ensure vertical standing,
- UV resistant,
- Mildew resistant,
- Does not absorb odours,
- Drain Spout,
- Filter Spout for easy cleaning.



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Sunwrap



SunWrap air bubble sheets are produced by trapping air in sheet polythene. This process creates a distinctive bubble/blister type of a sheet that protects and insulates the package.

SunWrap is light in weight but remarkably strong. It can be manufactured in any colour and to specific lengths and shapes depending on the requirements of the customer. It allows multiple reuses and its air retention layer ensure consistent cushioning.

This exceptional packaging material acts as the perfect cushion and protects extremely fragile and delicate products which include machine parts, glassware, ceramic, electronic goods, furniture etc.



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Sunmesh

Specifications

The galvanized welded mesh is made through automated mechanical welding. It has the characteristics of firm solder joints, reasonable structure, and even mesh holes. The mesh surface is flat, the structure is sturdy, and the integrity is strong.

It is applied in industries such as, agriculture, construction, transportation, mining, etc. For example, machine protective covers, animal fences, flower and wood fences, window fences, passage fences, poultry cages, egg baskets, home office food baskets, paper baskets, and decorative purposes. Mainly used for exterior walls of general buildings, pouring concrete, high-rise residential buildings, etc., it plays an important structural role in insulation systems.

Product Name	Galvanized Welded Mesh
Place of Origin	China
Material	Galvanized Wire
Surface	Hot Dipped Galvanized
Weight	12.5Kgs/Roll
Mesh Size	5"x5"
Width	6 Feet
Length	30Meters



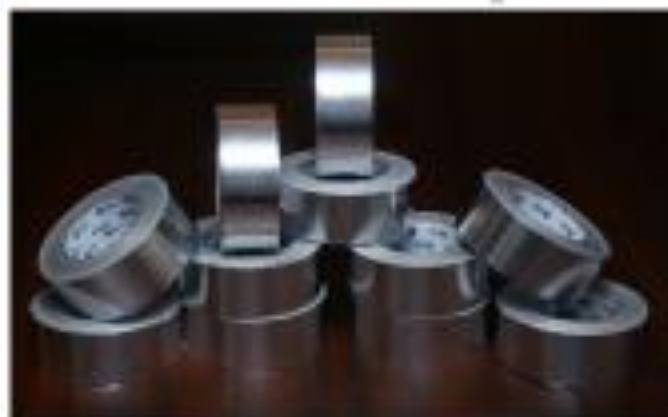
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Suntapes

Sun **Aluminium** **Tape**

Available in
2" X 50 M Rolls



Sun **Adhesive** **Tape**

Available in
2" X 50 M Rolls



Sun **Double Sided** **Tape**

Available in
2" X 50 M Rolls



Sun **Air Gap** **Tape**

Available in
100 Linear Metres



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