

ALUSUN

• **ALUSUN NATURAL** • **ALUSUN COLORED**
BITUMINOUS MEMBRANE SELF-PROTECTED WITH EMBOSSED ALUMINIUM FOIL

DESCRIPTION

ALUSUN is an oxidized bitumen-based membrane, reinforced with glass fabric, of which the upper face is self-protected with a natural aluminium foil (Natural version) or it is painted in the Colored version.

Both versions have an overlap strip at the side without any metal foil so that the joints can be sealed. The metal foil, right before the bitumen coating, is embossed in line with an exclusive pattern designed to compensate for expansions in the metal and to prevent the foil from detaching over time.

The bottom face of the membrane is lined with a hot-melt film and both are produced in France by a company with extensive experience in this field.

APPLICATION FIELDS

ALUSUN is bonded by heating the bottom face of the sheet and the overlap zones with a propane gas torch. These membranes are used to coat roof coverings that remain visible, to which they are

able to confer a high degree of protection against ageing and fire. In view of their reflectance, they also contribute in thermally insulating the roof.




METHOD OF USE

The ALUSUN membranes are to be laid on roofs without any stagnated water, on pitches of no less than 5%. For pitches greater than 20%, the ends of the sheets are to be secured mechanically.

The sheets must never be laid whole; the maximum length on a non-insulated roof will be shorter than 6 m and on thermal insulation, the sheets laid must not be longer than 4 m. It is not advisable to lay on thermal polyurethane or polystyrene foam insulation, whereas they can be laid on cork and high density mineral wool (Fesco or Peralmite) insulation. At the time of consignment, there may already be dark oxide stains on the metal foil, but this will not affect the duration and holding resistance of the foil or the product; it simply anticipates natural oxidation that forms on the foil when exposed to the outdoors, which represents its protective layer and preserves it over time.

The aluminium foils are corroded by the calcium hydroxide contained in cement-based products and by the storm water on the same. Do not apply on cellular concrete, which often contains additives that are aggressive towards aluminium.

Store the rolls standing upright and out of the sun; do not stack pallets on top of each other.

 INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDELINES		EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING		
		• Upper layer in multi-layer systems without permanent heavy surface protection		
METHOD OF USE				
 APPLY BY TORCH	 NAILING			

TECHNICAL CHARACTERISTICS

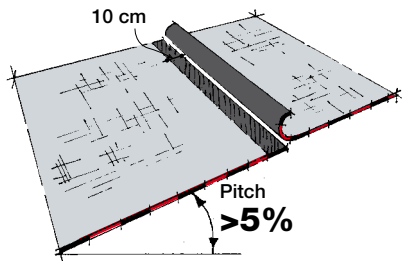
	T	ALUSUN NATURAL 30	ALUSUN NATURAL 40 ALUSUN COLORED 40
Weight (EN 1849-1)	±10%	3,0 kg/m ²	4,0 kg/m ²
Roll size (EN 1848-1)	≥	1x10 m	1x10 m
Reinforcement		Fibreglass	Fibreglass
Watertightness (EN 1928 method B)	≥	10 kPa	10 kPa
Peel resistance of joints (EN 12316-1)	-20 N	NPD	NPD
Shear resistance of joints (EN12317-1)	-20%	NPD	NPD
Maximum tensile strength Long./Trasv. (EN 12311-1)	-20%	880/830 N/50 mm	880/830 N/50 mm
Elongation (EN 12311-1)	-15 V.A.	10/11%	10/11%
Resistance to impact (EN 12691 method A)		NPD	NPD
Resistance to static loading (EN 12730)		NPD	NPD
Resistance to tearing (nail shank) (EN 12310-1)	-20%	NPD	NPD
Dimensional stability (1107-1)		NPD	NPD
Cold-state flexibility (EN 1109)	≤	-0°C	-0°C
• after ageing at high temperatures (EN 1296-1109)	+10°C	NPD	NPD
Flow resistance at high temperature (EN 1110)	≥	80°C	80°C
• after ageing at high temperatures (EN 1296-1109)	-10°C	NPD	NPD
UV resistance (EN 1297)		-	-
Reaction to fire (EN 13501-1)		Euroclasse F	Euroclasse F
External fire performance (EN 13501-5)		F _{roof}	F _{roof}

ALUSUN

METHOD OF USE

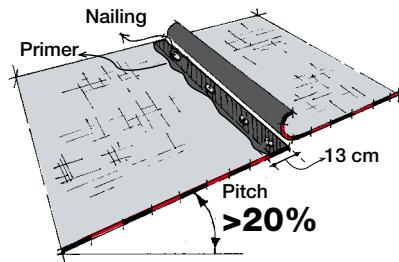
ROOF PITCHES

Minimum pitch **5%**



The membranes are to be laid on roofs without any stagnated water, removing about 10 cm of the metal foil on the end joints. The overlap should then be 11 cm.

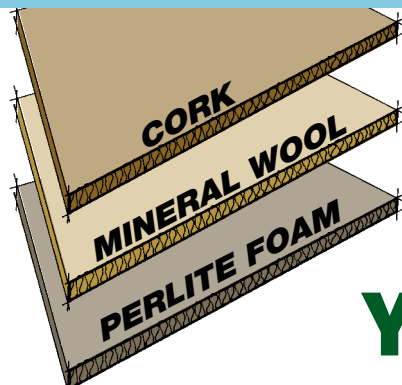
Pitch **>20%**



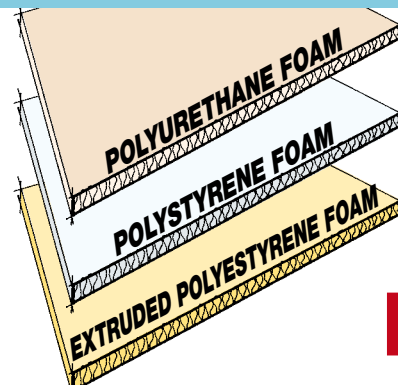
On pitches **GREATER THAN 20%**, the ends of the sheets are to be mechanically secured without removing the metal foil and after applying primer over approximately 13 cm.

LAYING ON THERMAL INSULATION

ADMITTED INSULATION

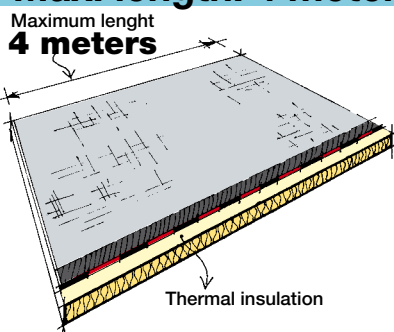


UNADMITTED INSULATION



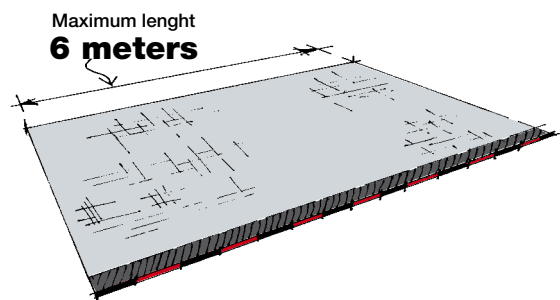
SHEET LENGTHS

Roof **WITH** thermal insulation
Max. length: 4 meters



The end overlaps shall be offset when laying the sheets

Roof **WITHOUT** thermal insulation
Max. length: 6 meters



The end overlaps shall be offset when laying the sheets

WARNINGS

- **Oxide stains.** The feasible presence of dark oxide stains does not affect the duration of the metal foil or the product. It is merely an anticipation of normal oxidation that will form on the foil when exposed to the outdoors and that represents the protective layer.

of the product in use. Considering the many possible uses and the possible interference of elements that are not under our control, we accept no responsibility for the results. The Purchaser is responsible for establishing the suitability of the product for the use envisaged.

The data reported is approximate and refers to current production. It may be changed and updated by INDEX S.p.A. at any time without prior notification, as desired. The technical information and suggestions provided represent our best knowledge of the properties

• FOR DETAILS REGARDING THE CORRECT USE OF OUR PRODUCTS, PLEASE CONSULT THE INDEX TECHNICAL SPECIFICATIONS • FOR FURTHER INFORMATION OR SPECIAL USES, PLEASE CONTACT OUR TECHNICAL OFFICE •

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Construction Systems and Products

Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67 - Tel. (+39)045.8546201 - Fax (+39)045.518390

Internet: www.indexspa.it
email Technical & Sales Info: tecom@indexspa.it
email Administration Offices: index@indexspa.it
e-mail Index Export Dept.: index.export@indexspa.it

