BARRIER ALU NET SD1500

REFLECTIVE VAPOUR BARRIER Sd > 1500 m

200 g/m²

LCA EPD EN 13984

A Önorm B3867 DS dd | CH SIA 232 V.v.u. | D ZVDH Dd | F DTU 31.2 pare-va-peur | I UNI 11470 A/R3

AUS AS/NZS 4200.1 Class 1 | USA IRC Class 1 | B-s1,d0

REINFORCING GRID

Thanks to its composition, the membrane is not affected by mechanical stress or by staples and nails.

REFLECTIVE

Thanks to its ability to reflect up to 70% of the heat, the membrane improves the thermal performance of the construction panels.

REACTION TO FIRE B-s1,d0

Self-extinguishing membrane that does not spread the flame in case of fire contributing to the protection of the structure.

COMPOSITION

top layer
functional aluminised PE film

middle layer
PE reinforcing grid

bottom layer
PE film

CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m²]	tape	H [m]	L [m]	A [m²]	*H [ft]*	*L [ft]*	*A [ft²]*	
BARALU1500	BARRIER ALU NET SD1500	200	-	1,5	50	75	*5*	*164*	*807*	30

ENERGY SAVING

The reflectivity of the membrane improves the energy performance of the construction panels as it reflects heat inwards increasing thermal resistance.

SAFETY

Thanks to its B-s1,d0 fire rating, the membrane is self-extinguishing in the event of contact with an open flame, providing greater safety both during construction and after the building has been completed.

TECHNICAL DATA

Properties	standard	value	*value*
Mass per unit area	EN 1849-2	200 g/m^2	*0.66 oz/ft^2*
Thickness	EN 1849-2	0,15 mm	*6 mil*
Water vapour transmission (Sd)[1]	EN 1931	4000 m	*0.001 US perm*
Maximum tensile force MD/CD[2]	EN 12311-2	465 / 495 N/50mm	*46 / 46 lb/in*
Elongation MD/CD[2]	EN 12311-2	26 / 19 %	-
Resistance to nail tearing MD/CD[2]	EN 12310-1	400 / 400 N	*67 / 67 lbf*
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	4 weeks	-
Temperature resistance	-	-20 / 80 °C	*-4 / 176 °F*
Reaction to fire	EN 13501-1	class B-s1,d0	
Resistance to penetration of air	EN 12114	0 m^3/(m^{2}h50Pa)	*0 cfm/ft^2 at 50Pa*
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,39 W/(m·K)	*0.23 BTU/h·ft·°F*
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 1330 kg/m^3	*approx. 0.77 oz/in^3*
Water vapour resistance factor (μ)	-	approx. 26000000	*approx. 20000 MNs/g*
VOC content	-	0 %	-
Reflectivity	EN 15976	approx. 70 %	-
Equivalent thermal resistance with 50mm air gap ($\varepsilon_{other\ surface}$ 0,025-0,88)	ISO 6946	$R_{g,0,025}$: 0,801 (m^{2}K)/W $R_{g,0,88}$: 0,406 (m^{2}K)/W	*4.56 h·ft^2·°F/BTU* *2.30 h·ft^2·°F/BTU*

[1] Sd = 4000 m (- 2500 / + 4000).
[2] Average values obtained from laboratory tests. Consult the Declaration of Performance for the minimum values.

FIRE PROTECTION

FIRE SEALING
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FIRE FOAM
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FIRE STRIPE
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FRONT BAND UV 210
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MECHANICAL STRENGTH

The composition of the product and the reinforcement grid guarantee excellent dimensional stability even when installed on a soft, non-continuous support and therefore with possible mechanical stresses.