

BARRIER ALU NET ADHESIVE 300



SELF-ADHESIVE REFLECTIVE VAPOUR
BARRIER $S_d > 1500 \text{ m}$

FAST INSTALLATION

The fully self-adhesive surface of the membrane allows fast and safe installation without compromising performance.

COMPLETE BARRIER

Maximum resistance to steam and radon gas penetration thanks to its unique composition. The membrane minimises radon penetration, reducing health risks.



SUPER
BARRIER



REFLECTIVE
70%



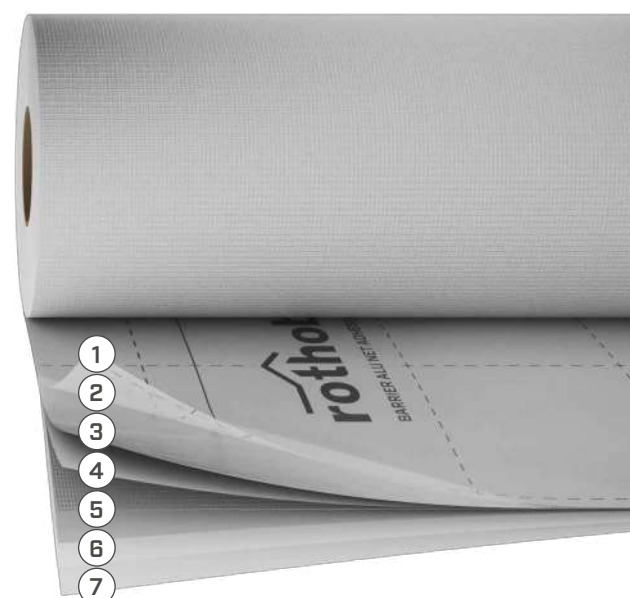
STRONGER



RADON
BARRIER

COMPOSITION

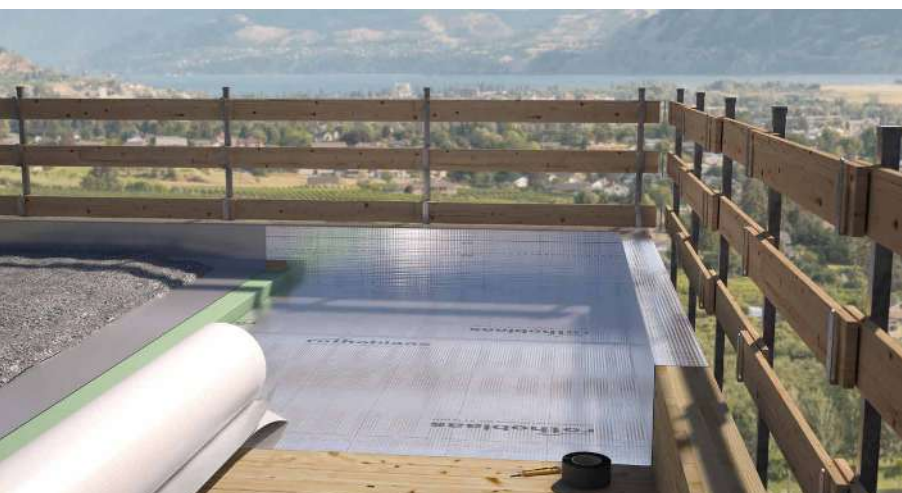
- ① coating: PET film
- ② top layer: aluminium film
- ③ middle layer: PE film
- ④ reinforcing layer: reinforcing PE grid
- ⑤ bottom layer: PE film
- ⑥ glue: acrylate dispersion without solvents
- ⑦ separation layer: pre-cut removable plastic film



CODES AND DIMENSIONS

CODE	description	mass per unit area [g/m ²]	liner [mm]	H [m]	L [m]	A [m ²]	H [ft]	L [ft]	A [ft ²]	
BARALUA300	BARRIER ALU NET ADHESIVE 300	300	150/1300	1,45	50	72,5	4.8	164	780	20
BARALUAS300	BARRIER ALU NET ADHESIVE 300 STRIPE	300	175/175	0,35	50	17,5	13.8	164	188	75

Available in different widths on request.



REFLECTIVE

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

MECHANICAL STRENGTH

The composition of the product and the reinforcement grid guarantee excellent dimensional stability even under mechanical stresses.

TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	300 g/m ²	0.98 oz/ft ²
Thickness ⁽¹⁾	EN 1849-2	0,15 mm	6 mil
Water vapour transmission (Sd) ⁽²⁾	EN 1931/EN ISO 12572	4000 m	0.001 US Perm
Tensile strength MD/CD	EN 12311-2	>400/400 N/50 mm	46/46 lbf/in
Elongation MD/CD	EN 12311-2	>10/10 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 300/300 N	67/67 lbf
Watertightness	EN 1928	compliant	-
Water vapour resistance:			
- after artificial ageing	EN 1296/EN 1931	compliant	-
- in the presence of alkalis	EN 1847/EN 12311-2	npd	-
Reaction to fire	EN 13501-1	class B-s1, d0	-
Resistance to penetration of air	EN 12114	<0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Resistance to temperature	-	-20/80 °C	-4/176 °F
UV resistance ⁽³⁾	EN 13859-1/2	336h (3 months)	-
Thermal conductivity (λ)	-	0,39 W/(m·K)	0.23 BTU/h·ft·°F
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 600 kg/m ³	approx. 37 lbm/ft ³
Water vapour resistance factor (μ)	-	approx. 10000000	approx. 20000 MNs/g
Radon diffusion coefficient D	ISO/TS 11665-13	< 3,5 e ⁻¹⁵ m ² /s	-
Radon diffusion length l	ISO/TS 11665-13	< 0,000041 m	-
Reflectivity	EN 15976	approx. 70 %	-
Equivalent thermal resistance with 50 mm air gap (ε _{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
Adhesion strength on OSB at 90° after 10 min	EN 29862	2 N/10 mm	1.1 lbf/in
Adhesion strength on OSB at 180° after 10 min	EN 29862	4,5 N/10 mm	2.6 lbf/in
Shear adhesion strength of the joint on BARRIER ALU NET ADHESIVE 300 after 24h ⁽⁴⁾	EN 12317-2	180 N/50 mm	20 lbf/in
Adhesion strength (average) on BARRIER ALU NET ADHESIVE 300 after 24h ⁽⁵⁾	EN 12316-2	25 N/50 mm	2.9 lbf/in
Storage temperature ⁽⁶⁾	-	5/25 °C	41/77 °F
Application temperature	-	-5/35° C	23/95°F
Solvents	-	no	-

(1)The thickness at the grid is 0,45mm (18 mil).

(2)Total barrier in accordance with ZVDH classification (Germany) with a minimum guaranteed value exceeding 1500 m.

(3)Laboratory ageing test data cannot reproduce unforeseeable causes of the product's degradation, or consider the stresses to which it will be subjected during its service life. To ensure its integrity, as a precautionary measure, exposure to weathering during construction should be limited to a maximum of 4 weeks.

(4)Minimum required value according to DTU 31.2 P1-2: 40N/50 mm.

(5)Minimum required value according to DTU 31.2 P1-2: 25 N/50 mm.

(6)Store the product in a cool, dry place for no more than 12 months.

Waste classification (2014/955/EU): 08 04 10.

DETERMINATION OF THE RADON DIFFUSION COEFFICIENT

Radon is an invisible, odourless gas found in soil that can seep through building foundations, accumulating indoors and posing a health risk to occupants.

BARRIER ALU NET ADHESIVE 300 serves as an effective radon gas barrier, ensuring a safe and healthy environment.

Rn diffusion coefficient D	3,5·10 ⁻¹⁵ (m ² /s)	
Rn diffusion length l	4,1·10 ⁻⁵ (m)	
Rn resistance R _{Rn}	179759 (Ms/m)	

BARRIER ALU NET ADHESIVE 300 is made from the same membrane as BARRIER ALU NET SD1500, making the results applicable to this product also.



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page 142



BLACK BAND
page 144



PRIMER SPRAY
page 112



BYTUM SPRAY
page 48