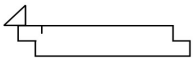
X-FOAM® ALU ROOF

THERMAL INSULATION PANEL MADE OF EXTRUDED POLYSTYRENE FOAM WITH AN ALUZINC PROFILE THE PANEL IS COVERED WITH EMBOSSED ALUMINIUM LAYER.

CHARACTERISTIC	STANDARD	UNIT	VALUES
X-FOAM thickness	EN 823	mm	60 - 140
Thickness tolerance class (T2) Thickness from 20 mm to 100 mm	EN 823 EN 13164	mm	-1,5 /+1,5
Length	EN 822	mm	2400
Width	EN 822	mm	Variable
Overall density X-FOAM		kg/m^3	31 ± 10%
Specific heat X-FOAM		J/kgK	1450
Overall density PLASTERBOARD	UNI EN 520	kg/m^3	810 ± 10%
Specific heat PLASTERBOARD	UNI EN 1045	J/kgK	1000
Specific heat PLASTERBOARD	UNI 10351-94	W/mK	0,25
FINISHING			
L- edges 			
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE			
Declared thermal conductivity X-FOAM			
Thickness 60 mm	EN 13164 EN 12667	W/mK	0,034
Thickness from 80 mm to 100 mm			0,035
Thickness 120 mm			0,036
Thickness 140 mm			0,034

Declared thermal resistance X-FOAM ALU ROOF (EN 13164 / EN 12667)

Thickness (mm):	60	80	100	120	140
Thermal resistance (m^{2}K/W):	1,75	2,25	2,85	3,30	4,15

COMPRESSIVE STRESS AT 10 % DEFORMATION - σ_{10} OF THERMAL INSULATION X-FOAM			
Thickness from 60 mm to 140 mm	EN 826	kPa	≥ 250
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS OF THERMAL INSULATION X-FOAM			
Condition test: (48±1) hours, (70±2)°C and (90± 5)% U.R. Changes in thickness, length and width	EN 1604	%	≤ 5
DEFORMATION BEHAVIOR OF THERMAL INSULATION X-FOAM			
Test condition: 70ºC, 168 hours, 40 kPa	EN 1605	%	≤ 5
LONG TERM WATER ABSORBTION BY TOTAL IMMERSION (28 DAYS) OF THERMAL INSULATION X-FOAM			
Thickness from 60 mm to 140 mm	EN 12087	Vol. %	≤ 0,7
WATER ABSORBTION BY DIFFUSION (28 DAYS) OF THERMAL INSULATION X-FOAM			
Thickness from 60 mm to 140 mm	EN 12088	Vol. %	≤ 3
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)			
Thickness from 60 mm to 140 mm	EN 12086		80
FREEZE - THAW RESISTANCE OF THERMAL INSULATION X-FOAM			
Thickness from 60 mm to 140 mm	EN 12091	Vol. %	≤ 1
REACTION TO FIRE OF THERMAL INSULATION X-FOAM			
Reaction to fire	EN 13501-1	Euroclass	E
TEMPERATURE LIMIT USE OF THERMAL INSULATION X-FOAM			
Temperature limit use		º C	+ 75

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