


# ALGOPAN® VENTILATO XL

## PREFABRICATED PANEL MADE OF AN OSB SUPPORT LAYER

Thermal Insulation: EXTRUDED POLYSTYRENE X-FOAM® WITH EXTRUSION SKIN

On one face: OSB PANEL GLUED WITH AIR CHAMBER

PROPERTY	NORM	UNITS	VALUE				
PANEL CHARACTERISTICS - ALGOPAN VENITLATO XL							
DIMENSION							
OSB Support Thickness		mm	10				
Air chamber thickness		mm	40				
Thermal insulation thickness	EN 823	mm	40 - 50 - 60 - 80 - 100				
Panel Thickness		mm	90 [40+40+10]	100 [50+40+10]	110 [60+40+10]	130 [80+40+10]	150 [100+40+10]
Length		mm	2500				
Width		mm	1200				
EDGE PROFILE							
Shiplap Edges							
THERMAL RESISTANCE OF ALGOPAN VENTILATO XL PANEL							
Thickness (mm):	90	100	110	130	150		
Thermal Resistance (m²K/W):	1,25	1,55	1,85	2,35	2,90		
THERMAL INSULATION CHARACTERISTICS - X-FOAM®							
THERMAL CONDUCTIVITY							
Thermal declared conductivity							
Thickness 40mm	EN 13164	W/mK	0,033				
Thickness from 50mm to 60mm	EN 12667		0,034				
Thickness from 80mm to 100mm			0,035				
COMPRESSIVE STRESS OR COMPRESSIVE STRENGTH AT 10% DEFORMATION							
Compressive strength at 10% deformation			≥ 300				
DIMENSIONAL STABILITY UNDER SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS							
Relative change in thickness, length and width with specified temperature (70 °C) and humidity conditions (90% H.R.)	EN 1604	%	< 0,5				
LONG TERM WATER ABSORPTION BY IMMERSION							
Long term water absorption by immersion (28 days)	EN 12087	Vol. %	≤ 0,7				
LONG TERM WATER ABSORPTION BY DIFFUSION							
Thickness from 40mm to 50mm	EN 12088	Vol. %	≤ 5				
Thickness from 60mm to 100mm			≤ 3				
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)							
Water vapour diffusion resistance factor (μ)	EN 12086		80				
REACTION TO FIRE							
Reaction to fire	EN 13501-1	Euroclass	E				
MAXIUM TEMPERATURE OF USE							
Maxium temperature of use		°C	+ 75				