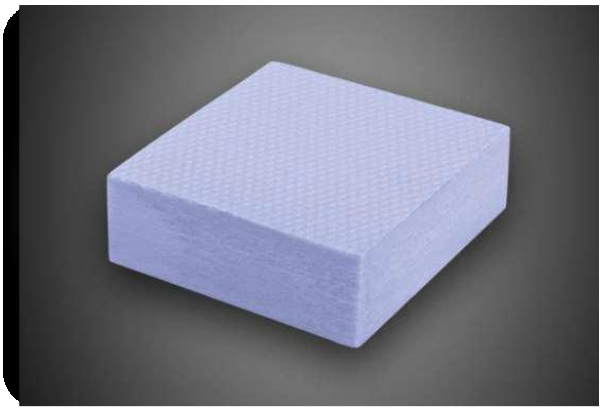
X-FOAM WAFER

EXTRUDED POLYSTYRENE BOARD
[XPS - without HCFC - without HFC]



X-FOAM® WAFER is a thermal insulation sheet made of indigo-coloured extruded with wafer surface and 4 straight edges. The sheets declare compressive strength values from 200 to 300 kPa, and have a width of 600 mm, length of 1250 mm and thicknesses available from 20 to 300 mm. **X-FOAM® WAFER** is fire classified EUROCCLASS E according to the European standard EN 13501-1. **X-FOAM® WAFER** complies with the Minimum Environmental Criteria (CAM).

APPLICATION WITH X-FOAM® WAFER: External Insulation (ETICS), flooring on porticos (piano pilots), coat plinth, thermal bridges.

CHARACTERISTIC	STANDARD	UNIT	VALUES
Thicknesses	EN 823	mm	20 - 300
Thickness tolerances Th from 20 mm to 240 mm	EN 823 EN 13164	mm	T2 -1,5/+1,5
Length	EN 822	mm	1250
Width	EN 822	mm	600
Length (l) and width (b) tolerances	EN 822 EN 13164	mm	l o b ≤ 1500: +/- 8 l o b > 1500: +/- 10
Orthogonality tolerance (Sb)	EN 824 EN 13164	mm/m	5
Flatness tolerance (Smax)	EN 825 EN 13164	mm/m	6
Density		kg/m^3	32 +/- 10%
Average closed cell		%	>96
Specific heat		J/kgK	1450
Dimensional stability at 70°C and 90% RH Changes in thickness, length and width	EN 1604	%	≤ 5 – DS(70,90)
Dimensional stability at 70°C and 90% RH Changes in thickness, length and width	EN 1605	%	≤ 5 – DLT(2)5
Traction perpendicular to the faces	EN 1607	kPa	≥ 400 – TR400
Shear resistance	EN 12090	kPa	≥ 100
Shear modulus	EN 12090	kPa	≥ 1100

CHARACTERISTIC	STANDARD	UNIT	VALUES	
Thermal conductivity (λ_D) and Thermal resistance (R_D)			λ_D	R_D
Thickness 20 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,031	0,65
Thickness 30 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,031	0,97
Thickness 40 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,032	1,25
Thickness 50 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,033	1,52
Thickness 60 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,033	1,82
Thickness 80 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,032	2,50
Thickness 100 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,033	3,03
Thickness 120 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,033	3,64
Thickness 140 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,034	4,12
Thickness 160 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,034	4,71
Thickness 180 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,034	5,29
Thickness 200 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,034	5,88
Thickness 220 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,035	6,29
Thickness 240 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,035	6,86
Thickness 260 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,036	7,20
Thickness 280 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,036	7,80
Thickness 300 mm	EN 13164 EN 12667	λ_D: W/mK R_D: m^2K/W	0,036	8,35
Compressive stress at 10 % deformation Thickness from 20 to 40 mm Thickness from 50 to 60 mm Thickness from 80 to 300 mm	EN 826	kPa	≥ 200 – CS(10/Y)200 ≥ 250 – CS(10/Y)250 ≥ 300 – CS(10/Y)300	
Compressive creeo after 50 years with crushing ≤ 2 %	EN 12087	kPa	≤ 0,7 – WL(T)0,7	
Deformation behavior. Condition test 70° C, 168 h, 40 kPa	EN 12088	%	≤ 3% – WD(V)3 sp.< 60 ≤ 2% – WD(V)2 sp. 60 ≤ 1% – WD(V)1 sp.> 60	
Resistance to water vapor diffusion (μ)	EN 12086		MU 80	
Frost behavior (freeze - thaw alternation) after water absorption by long-term diffusion	EN 12091	Vol %	≤ 1 – FTCD1	
Reaction to fire	EN 13501-1	Euroclasse	E	

Limit temperature of use		°C	75
Closed cell average		%	> 96
VOC (Volatile Organic Compounds)	EN 16516 / ISO 16000	Class/Protocol	A+, Leed, Well, Breeam