



# TECHNICAL DATA SHEET

03.11.2014

## FOAMBOARD 2500 - D

Properties	Symbol	Unit	Description	Tolerance	Standard
Material	-	-	Extruded Polystyrene Board	-	TS EN 13164
Edge Profile	-	-	Square, Ship-lap	-	-
Surface Profile	-	-	With skin	-	-
Density	$\rho$	kg/m <sup>3</sup>	min.25      min.28      min.30	-	-
Width	$b$	mm	600	±8	TS EN 822
Length	$l$	mm	1250	±8	TS EN 822
Squareness	$S_b$	mm/m	max.5	-	TS EN 824
Flatness	$S_{max}$	mm/m	max.6	-	TS EN 825
Thickness	$d$	mm	20   25   30   40   50   60   70   80   90   100	T1(*)	TS EN 823
Reaction to Fire	-	-	E	-	TS EN 13501-1
Thermal Conductivity Declared Value (10°C) <sup>(1)</sup>	$\lambda_D$	W/mK	0,035      0,036	-	TS EN 12667
Thermal Resistance	$R_D$	m <sup>2</sup> K/W	0,55   0,70   0,85   1,10   1,40   1,70   2,00   2,25   2,55   2,75	-	TS EN 13164
Service Temperature	-	°C	-50/+75	-	-
Water Vapor Diffusion Resistance Coefficient	$MU$	-	100	MU100	TS EN 12086
Tensile Strength Perpendicular to Faces	$TR$	kPa	min.400	TR400	TS EN 1607
Dimensional Stability Under Specified Thermal and Humidity Conditions	$\Delta\epsilon_l, \Delta\epsilon_b, \Delta\epsilon_d$	%	≤ 5 <sup>(2)</sup>	DS (70,90)	TS EN 1604
Dimensional Stability Under Specified Thermal and Compressive Load conditions	$\epsilon_t$	%	≤ 5 <sup>(3)</sup>	DLT(1)5 DLT(2)5	TS EN 1605
Compressive Strength	$\sigma_{10}$	kPa	min.250 (%10 deformation)	CS(10/Y)250	TS EN 826
Freeze Thaw Resistance	$FTCD$	%	max.1	FTCD <sub>1</sub>	TS EN 12091
Long Term Water Absorption by Total Immersion	$W_{lt}$	%	max.0,7	WL(T) 0,7	TS EN 12087
Long Term Water Absorption by Diffusion	$W_{dv}$	%	max.3	WD(V)3	TS EN 12088
Packaging Material	-	-	PE Film	-	-
Application Area	For thermal insulation of flat roofs on water proofing membrane.				
Remarks	There is no ship-lap in 20 mm thickness.				

\* T1 : For < 50 mm ±2; for 50 - 100 mm -2,+3

According to customer demands can be produced in T2 or T3 thickness class.

<sup>(1)</sup> TS EN 13164 Annex C: According to average of 25 years aged values  $\lambda_{(90/90)}$

<sup>(2)</sup> TS EN 13164 / Item 4.3.2

<sup>(3)</sup> TS EN 13164 / Item 4.3.3

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İzocam Foamboard Products are manufactured in İZOCAM Gebze XPS Plant having ISO 9001, ISO 14001 and OHSAS 18001 Management System Certificates.

Please contact İzocam Sales Department for different sizes, special facings and detailed technical properties.

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