

PIR “Duo Twin” Type

Thermal insulating panel made of a rigid polyiso foam, with closed cells, expanded between two multilayer metallized paper supports

Fields of use

Warm roof under bituminous membrane, warm roof under synthetic membrane, warm garden roof, pitched roof under ventilated membrane, cavity wall, residential floor, floor with heating system.



CHARACTERISTICS	M.U. SYMBOL	VALUE							STANDARD
		30	40	50	60	80	100	120	
Panel size	mm	1200 x 1000							EN 822 ISO 29465
Density	kg/m ³	35 ±10%							
Declared thermal conductivity	λ_D (W/mK)	0,022							EN 13165
Declared thermal resistance $R_D = d/\lambda_D$	R_D (m ² K/W)	1,36	1,82	2,27	2,73	3,64	4,55	5,45	EN 12667
Dimensional stability (+70±2)°C and (90±5)% R.H. for (48±1) h	%	≤1 linear variation ≤4 variation on thickness							EN 1604
Compression resistance at 10% of deformation	kPa	≥ 150							EN 826
Compressive strength after 50 years with crushing ≤2%	kPa	≥ 25							EN 1606
Water absorption totally submersed for a period of time	Vol. %	≤ 1							EN 12087
Water vapor diffusion resistance	μ	125							EN 12086
Temperature of use	°C	-40 / +110							
Reaction to fire	Euroclass	F							EN 13501-1
Specific heat	J/kgK	1500							

DIMENSIONAL TOLERANCES

Thickness (d)	mm	d < 50 50 ≤ d ≤ 60 d ≥ 60	-2/+2 -3/+3 -3/+5	EN 823 EN 13165	T2
Length and width (L)	mm	L < 1000 1000 ≤ L ≤ 2000	-5/+5 -7,5/+7,5	EN 13165	
Orthogonality (Sb)	mm/m		5	EN 824 EN 13165	
Planarity (Smax) Length ≤ 2500 mm Area ≤ 0,75 m ² Area > 0,75 m ²	mm/m mm/m		≤ 5 ≤ 10	EN 825 EN 13165	

THERMAK
info@thermak.it
www.thermak.it

MATCO S.r.l.
Via Quadrelli, 69
37055 Ronco all'Adige (VR)
Tel. +39.045.6608111