



GENERAL ISOPUR V

POLYISOCYANURATE INSULATING PANEL

COATED ON BOTH SIDES WITH A THIN LAYER OF SATURATED GLASS

DESCRIPTION

General ISOPUR V is a sandwich panel consisting of a closed cell rigid polyiso foam insulating component (PIR) coated on both sides with a thin saturated glass reinforcement. The product is CFC- and HCFC-free.

CE marked according to standard EN 13165.

APPLICATION

It can be used for:

- insulation of flat or slanted roofs (coupling with synthetic and bituminous layers);
- insulation of floors;
- insulation of walls, including walls with external insulation.

TECHNICAL DATA

PROPERTIES	UNIT OF MEASUREMENT	CLASSIFICATION ACCORDING TO EN 13164	VALUE / LEVEL	TEST STANDARD
Thermohygrometric features				
Declared thermal conductivity (at average T of 10°C)				
Thickness from 20 to 70 mm	W/mK	λ_D	0.028	EN 12667
Thickness from 80 to 100 mm	W/mK	λ_D	0.026	
Thickness from 120 to 160 mm	W/mK	λ_D	0.025	
Declared thermal resistance				
Thickness 20 mm	m ² K/W	R _D	0.70	EN 12667
Thickness 30 mm	m ² K/W	R _D	1.05	
Thickness 40 mm	m ² K/W	R _D	1.40	
Thickness 50 mm	m ² K/W	R _D	1.75	
Thickness 60 mm	m ² K/W	R _D	2.10	
Thickness 70 mm	m ² K/W	R _D	2.50	
Thickness 80 mm	m ² K/W	R _D	3.05	
Thickness 90 mm	m ² K/W	R _D	3.45	
Thickness 100 mm	m ² K/W	R _D	3.80	
Thickness 120 mm	m ² K/W	R _D	4.80	
Thickness 140 mm	m ² K/W	R _D	5.60	
Thickness 160 mm	m ² K/W	R _D	6.40	
Water absorption for long-term total immersion	Vol. %	WL(T)2	≤ 2	

The reported data are medium and indicative data related to the current production and they can be updated in any moment without notice by General Membrane SpA. The technical information provided by GENERAL MEMBRANE SpA represent its best technical knowledge on the characteristics and the proper use of the product. Considering the different and several fields of use and the possible combinations of specific elements and situations not depending by General Membrane, the company does not take any responsibility for results. It is the buyer's responsibility to determine the suitability of the product for the intended application.



CONFORMITY DATA SHEET

PRODUCT

STC 072 - GENERAL ISOPUR V

ISSUED

UK-04-03/22



Water absorption for short-term partial immersion	Kg/m ²	WS(P)0,09	≤ 0,1	EN 1609
Flatness after wetting one side	mm	FW2	≤ 10	EN 825
Resistance to vapour diffusion	m ² ·h·Pa/mg	Z	1.81 - 20.5	EN 12086
		μ	98	
Mechanical features				
Compressive strength (at 10% deformation)	kPa	CS(10/Y)150	≥ 150	EN 826
Compressive strength (at 2% deformation)	Kg/m ²	CS(2/Y)5000	≥ 5000	
Compressive strength at 50 years (deformation ≤ 2%)	kPa	CC(2/1.5/50)	50	EN 1606
Tensile strength perpendicular to the sides	kPa	TR80	≥ 80	EN 1607
Physical features				
Tolerance on thickness				
Thickness < 50 mm	mm	T2	±2	EN 823
50 mm ≤ Thickness ≤ 70 mm	mm	T2	±3	
Thickness ≥ 80 mm	mm	T2	-2; +5	
Tolerance on width and length (L)				
L < 1000 mm	mm		±5	EN 822
1000 mm ≤ L ≤ 2000 mm	mm		±7.5	
2000 mm ≤ L ≤ 4000 mm	mm		±10	
L > 4000 mm	mm		±15	
Flatness deviation	mm	S _{max}	≤ 5	EN 825
Orthogonal deviation	mm/m	S _b	≤ 5	EN 824
Reaction to fire		Euro class	E	EN 13501-1
Apparent volumetric mass density	Kg/m ³	ρ	35 ±2	EN 1602
Dimensional stability (70°C and 90% R.H. for 48 h)				
Thickness < 40 mm	%	DS(70,90)	3	EN 1604
Thickness ≥ 40 mm	%	DS(70,90)	4	
Dimensional stability (-20°C for 48 h)	%	DS(-20,-)	2	
Average percentage of closed cells	%		95	Manufacturer
Linear thermal expansion coefficient	mm/mK		0.05	UNI 6348
Specific heat	J/Kg·K		1470	EN 10456
Average recycled content (% in weight)*	%		3.2	EN 14021
Volatile Organic Compounds (VOC) Emission	French VOC Regulation		A	EN 16000
	Italian CAM		Pass	

PLEASE NOTE:

* **Recycled content: the environmental claim of the product**, drawn up in accordance with UNI EN ISO 14021:2016, must be requested from our Technical Department.

*Specify **ECOFRIENDLY** when ordering.*

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