

TECHNICAL SPECIFICATIONS

ISOVISTA® Premium Plus System

TECHNICAL FEATURES VALUES UNIT OF ACCORDING TO UNI EN 13163	TECHNICAL VALUES	UNIT OF MEASURE
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GENERAL CHARACTERISTICS

Lenght	131,5	cm
Width	54,5	cm
Thickness	10/12/14/16	cm
Surface developed by 1 panel	0,51	m ²
Surface developed by 1 linear meter of corner panels	0,38	m ²
Surface developed by 1 linear meter of corner panels	0,76	m ²
Orthogonality	± 2/100	cm/cm
Flatness	± 0,5	cm
Dimensional stability under normal laboratory conditions	± 0,2	%
Declared thermal conductivity at 10°C of the component	0,034	W/mK
Thermal resistance of the panel (slip+EPS insulation)		
10 cm	2,557	m ² K/W
12 cm	3,145	m ² K/W
14 cm	3,733	m ² K/W
16 cm	4,308	m ² K/W
Thermal transmittance (slip+EPS insulation)		
10 cm	0,39	W/m ² K
12 cm	0,32	W/m ² K
14 cm	0,27	W/m ² K
16 cm	0,23	W/m ² K
Resistance to bending	≥ 170	kPa
Reaction to fire (complete panel)	B-S1-D0	Class

SPECIFIC CHARACTERISTICS

Compressive stress at 10 % strain	≥ 120	kPa
Factor of resistance to water vapor diffusion	30-70	Q
Water absorption for a long period of immersion	≤ 2	%
Water absorption by partial immersion	≤ 0,5	Kg/m ²
Water vapor permeability	0,010 - 0,024	mg/(Pa · h · m)
Specific heat capacity	1260	J/(Kg · K)
Apparent density with grouting	22,00	Kg/panel
Maximum temperature of use	75	°C

SPECIAL EXPERIMENTS CARRIED OUT

Shear bond slip/panel	526	Kg/panel
Tensile strenght to fixing panel/standard wall	524	Kg/panel
Cycles of thermal stress (8h at -20°C- 8h at 30°C/50 % moisture - 8h at 80°C/90% moisture)		
Weight changes	4	‰
Variations in shape	1	‰