

# SPECIFICATIONS ISOVISTA® PREMIUM PANELS FROM 50 mm

SPECIFICATIONS ACCORDING	TECHNICAL VALUE	UNIT
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## GENERAL CHARACTERISTICS

Lenght	1015	mm
Width	615	mm
Thickness	50	mm
N. surface developed by 1 panel	0,534	m <sup>2</sup>
N. surface developed by 1 corner panel	0,462	m <sup>2</sup>
N. surface developed by 1 linear meter of corner panels	0,77	m <sup>2</sup>
Orthogonality	± 2/1000	mm/mm
Flatness	± 5	mm
Dimensional stability under normal laboratory conditions	± 0,2	%
Declared thermal conductivity al 10 °C of the component	0,033	W/mK
Thermal resistance of the panel (slip + EPS insulation)		
50 mm	1,108	m <sup>2</sup> K/W
Thermal transmittance (slip + EPS insulation)		
50 mm	0,90	W/m <sup>2</sup> K
Resistance to bending	≥ 250	kPa
Reaction to fire	B-S1-D0	Classe

## SPECIFIC CHARACTERISTICS

Compressive stress at 10 % strain	≥ 200	kPa
Factor of resistance to water vapor diffusion	40-100	μ
Water absorption for a long period of immersion	≤ 120	%
Water absorption by partial immersion	≤ 0,5	Kg/m <sup>2</sup>
Water vapor permeability	0,007 - 0,018	mg/(Pa·h·m)
Specific heat capacity	1260	J/(Kg·K)
Apparent density with grouting	18 ± 0,5	Kg/pannello
Limit temperature of use	75	°C

## SPECIAL EXPERIMENTS CARRIED OUT

Shear bond slip/panel	526	Kg/pannello
Tensile strenght to fixing panel/standard wall	524	Kg/pannello
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	‰

# SPECIFICATIONS ISOVISTA® PREMIUM

## PANELS FROM 80 / 100 / 120 / 140 mm

SPECIFICATIONS ACCORDING	TECHNICAL VALUE	UNIT
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### GENERAL CHARACTERISTICS

Lenght	1015	mm
Width	615	mm
Thickness	80/100/120/140	mm
N. surface developed by 1 panel	0,534	m <sup>2</sup>
N. surface developed by 1 corner panel	0,462	m <sup>2</sup>
N. surface developed by 1 linear meter of corner panels	0,77	m <sup>2</sup>
Orthogonality	± 2/1000	mm/mm
Flatness	± 5	mm
Dimensional stability under normal laboratory conditions	± 0,2	%
Declared thermal conductivity al 10 °C of the component	0,034	W/mK
Thermal resistance of the panel (slip + EPS insulation)		
80 mm	1,969	m <sup>2</sup> K/W
100 mm	2,557	m <sup>2</sup> K/W
120 mm	3,145	m <sup>2</sup> K/W
140 mm	3,733	m <sup>2</sup> K/W
Thermal transmittance (slip + EPS insulation)		
80 mm	0,51	W/m <sup>2</sup> K
100 mm	0,39	W/m <sup>2</sup> K
120 mm	0,32	W/m <sup>2</sup> K
140 mm	0,27	W/m <sup>2</sup> K
Resistance to bending	≥ 170	kPa
Reaction to fire	B-S1-D0	Class

### SPECIFIC CHARACTERISTICS

Compressive stress at 10 % strain	≥ 120	kPa
Factor of resistance to water vapor diffusion	30-70	μ
Water absorption for a long period of immersion	≤ 120	%
Water absorption by partial immersion	≤ 0,5	Kg/m <sup>2</sup>
Water vapor permeability	0,010 - 0,024	mg/(Pa·h·m)
Specific heat capacity	1260	J/(Kg·K)
Apparent density with grouting	19 ± 2	Kg/panel
Limit 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	‰