

TECHNICAL SPECIFICATIONS

ISOVISTA® Unifomat System

TECHNICAL FEATURES VALUES UNIT OF ACCORDING TO UNI EN 13163		TECHNICAL VALUES		UNIT OF MEASURE
GENERAL CHARACTERISTICS		5 cm	8//14 cm	
Lenght		119	119	cm
Width		53,5	53,5	cm
Thickness		5	8/10/12/14/16/18/20	cm
Surface developed by 1 panel		0,540	0,540	m²
Surface developed by 1 linear meter of corner panels		0,468	0,468	m²
Surface developed by 1 linear meter of corner panels		0,90	0,90	m²
Orthogonality		± 0,2/100	± 0,2/100	cm/cm
Flatness		± 0,5	± 0,5	cm
Dimensional stability under normal laboratory conditions		± 0,2	± 0,2	%
Declared thermal conductivity at 10°C of the component		0,033	0,034	W/mK
Thermal resistance of the panel (slip+EPS insulation)				
5 cm		1,108		m²K/W
8 cm			1,969	m²K/W
10 cm			2,557	m²K/W
12 cm			3,145	m²K/W
14 cm			3,733	m²K/W
16 cm			4,311	m²K/W
18 cm			4,896	m²K/W
20 cm			5,519	m²K/W
Thermal transmittance (slip+EPS insulation)				
5 cm		0,90		W/m²K
8 cm			0,51	W/m²K
10 cm			0,39	W/m²K
12 cm			0,32	W/m²K
14 cm			0,27	m²K/W
16 cm			0,23	m²K/W
18 cm			0,20	m²K/W
20 cm			0,18	m²K/W
Resistance to bending		≥ 250	≥ 170	kPa
Reaction to fire (complete panel)		B-S1-D0	B-S1-D0	Class

SPECIFIC CHARACTERISTICS

Compressive stress at 10 % strain	≥ 200	≥ 120	kPa
Factor of resistance to water vapor diffusion	40-100	30-70	Q
Water absorption for a long period of immersion	≤ 120	≤ 2	%
Water absorption by partial immersion	≤ 0,5	≤ 0,5	Kg/m ²
Water vapor permeability	0,007 - 0,018	0,010-0,024	mg/(Pa·h·m)
Specific heat capacity	1260	1260	J/(Kg·K)
Apparent density with grouting	18 ± 0,5	19 ± 2	Kg/panel
Maximum temperature of use	75	75	°C

SPECIAL EXPERIMENTS CARRIED OUT

Shear bond slip/panel	526	526	Kg/panel
Tensile strenght to fixing panel/standard wall	524	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	4	%
Variations in shape	1	1	