

# SPECIFICATIONS ISOVISTA® UNIFORMAT PANELS FROM 80 / 100 / 120 / 140 mm

SPECIFICATIONS ACCORDING	TECHNICAL VALUE	UNIT
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## GENERAL CHARACTERISTICS

Lenght	1190	mm
Width	535	mm
Thickness	80/100/120/140	mm
N. surface developed by 1 panel	0,540	m <sup>2</sup>
N. surface developed by 1 corner panel	0,468	m <sup>2</sup>
N. surface developed by 1 linear meter of corner panels	0,90	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

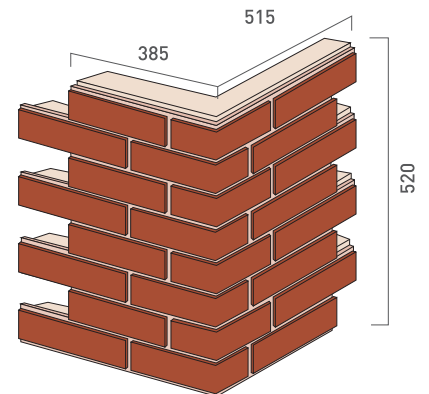
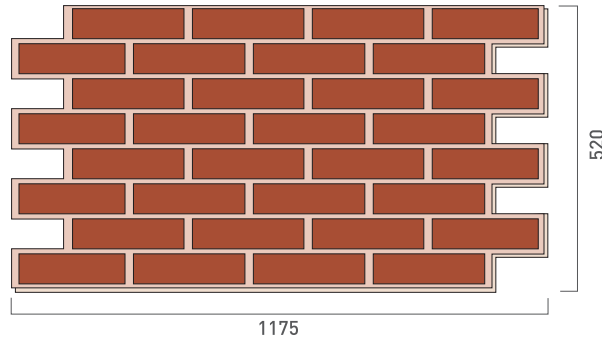
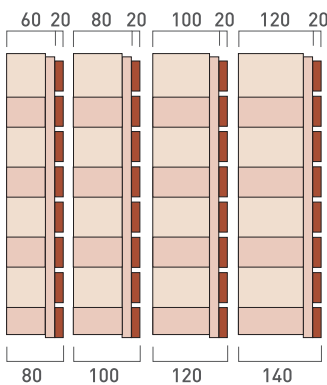
## SPECIFIC CHARACTERISTICS

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	≤ 2	%
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	‰

# SIZE AND DIMENSION



## SIZE AND DIMENSION

### PANEL SIZE:

Height: 520 mm  
Length: 1175 mm

### CORNER PANEL SIZE:

Altezza: 520 mm  
Lunghezza lati: 385 / 515 mm

### AREA COVERED IN SQUARE METERS:

1 panel covers **0,540 square meters**  
1 corner panel covers **0,468 square meters**  
1 linear meter of corner panels covers **0,90 square meters**

### PANEL WEIGHT:

from 14,5 to 15,5 kg ±  
1 square meter of panel from 27 to 29 kg ±

### CORNER PANEL WEIGHT:

from 12,5 to 14 kg ±  
1 linear meter of corner panels from 21 to 23 kg ±

## CHARACTERISTICS OF MATERIAL

### CLAY SLIPS SMOOTH AND SANDBLASTED:

Width: 250 mm  
Height: 55 mm  
Thickness: 20 mm

### EPS INSULATION:

Expanded polystyrene from 60 to 120 mm

