

RDZ TECHNICAL SHEET

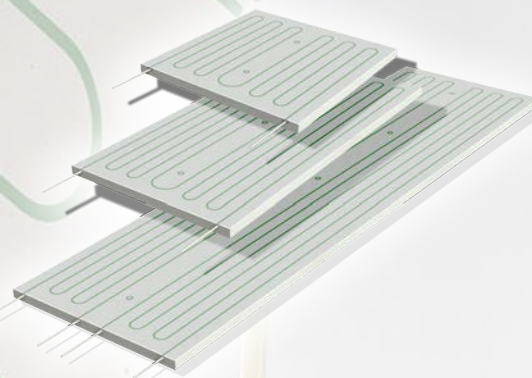
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BIKLIMAX RADIANT PANEL

b!klimax radiant panel is made of polystyrene, thickness 40 mm, and it includes polybutilene pipes \varnothing 6 mm with anti-oxygen barrier according to DIN 4726.

Panel and pipes are covered with a special layer of reinforced pre-plaster to increase their thermal output.



Panel	Code
Radiant panel 600	6100595
Radiant panel 1200	6101200
Radiant panel 2200	6102200

Polystyrene Panel						
Features	600	1200	2200	Unit	Standard	
Size of the panel:	596x596	1202x596	2202x596	mm	UNI 822	
Standard thickness:	39			mm	UNI 823	
Spessore base isolante:	30			mm	UNI EN 1264-3	
Thickness of the insulating base:	32.7	33.4	33.5	mm	UNI EN 1264-3	
Resistance to compression with 10% deformation:	200			kPa	UNI 826	
Resistance to compression with 5% deformation:	180			kPa		
Resistance to compression with 2% deformation:	130			kPa		
Thermal conductivity at 10 °C:	0.033			W/(m · K)	UNI EN 12667	
Thermal resistance:	0.95	1.00		(m ² · K)/W	UNI EN 13163	
Thermal transmittance:	1.00	0.98		W/(m ² · K)		
Water vapour diffusion resistance factor:	40 ÷ 100			1	UNI EN 12086	
Water vapour permeability:	0.007 ÷ 0.018			mg/(Pa · h · m)	UNI EN 12086	
Resistance to fire:	E			Euroclasse	EN ISO 11925-2	
Limit of operating temperature:	70			°C		
Declaration according to UNI EN 13163 EPS-EN13163-T2-L1-W2-S2-P4-BS250-CS(10)200-DS(70,-)1-WL(T)3-MU(40-100)						

PB pipe						
Outside diam. (mm)	Thickness (mm)	Weight (kg/m)	PN a 20 °C (bar)	PN a 60 °C (bar)	PN a 95 °C (bar)	Water content (l/m)
6	1	0,017	32	21	9	0,013
Features	Value			Unit		Standard
Standard						DIN 16968
Safety Factor	1,5					DIN 16968
Density	920			kg/m ³		ISO 1183
Tensile stress at yield (50mm/min)	19			MPa		ISO 8986-2
E-Modulus at 23°C	350			N/mm ²		ISO 178
Elongation at tear at 23°C	300			%		ISO 8986-1
Thermal conductivity coefficient	0,22			W/(m·K)		
Oxygen-tightness Class 4 at 40°C	≤ 0,32			mg/(m ² ·d)		DIN 4726
Oxygen-tightness Class 5 at 80°C	≤ 3,6			mg/(m ² ·d)		DIN 4726
Longitudinal expansion coefficient at 20°C	1,3 · 10 ⁻⁴			m/(m·K)		