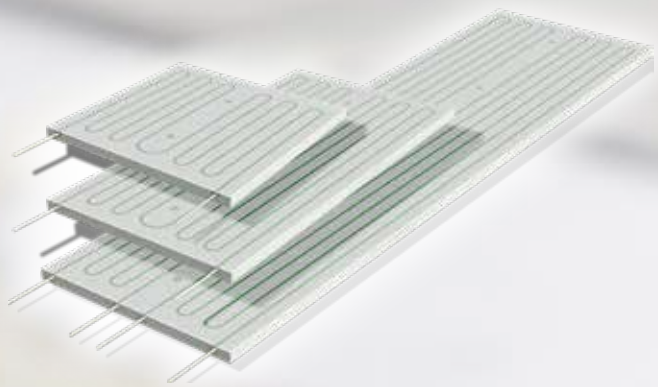
TECHNICAL SHEET

RDZ

b!klimax radiant panel

b!klimax radiant panel is made of polystyrene, thickness 40 mm, and it includes polybutilene pipes Ø 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.



Radiant Panel	Weight (Kg)	Code
Radiant panel 600x600	3.1	6100595
Radiant panel 1200x600	6.7	6101200
Radiant panel 2200x600	12.8	6102200

Polystyrene Panel						
Features		**600**	**1200**	**2200**	**Unit**	**Standard**
Size of the panel		596x596	1202x596	2202x596	mm	UNI EN 822
Standard thickness		39			mm	UNI EN 823
Thickness of the insulating base		30			mm	UNI EN 1264-3
Thickness of the insulating base:		32.7	33.4	33.5	mm	UNI EN 1264-3
Bending strenght	BS	200			kPa	UNI EN 12089
Resistance to compression with 10% deformation	CS(10)	150			kPa	UNI EN 826
Thermal conductivity at 10 °C	λd	0.034			W/(m • K)	UNI EN 12667
Thermal resistance	Rd	0.95			$(m^2 • K)/W$	UNI EN 12667
Thermal transmittance	U	1.05			$W/(m^2 • K)$	
Water vapour diffusion resistance factor	μ	30 ÷ 70				UNI EN 12086
Water vapour permeability	δ	0.009 ÷ 0.020			mg/(Pa • h • m)	UNI EN 12086
Dimensional stability at 48h and 70 °C	DS(70,-)	1			%	UNI EN 1604
Long term water absorption by partial immersion	Wlp	0.5			Kg / m^2	UNI EN 12087
Long term water absorption by total immersion	Wl(T)	≤3			%	UNI EN 12087
Resistance to fire	Euroclasse	E				EN ISO 11925-2
Limit of operating temperature		70			°C	
Declaration according to UNI EN 13163	T1-L3-W2-S2-P5-BS200-CS(10)150-DS(70,-)1-WL(T)3-MU(30-70)					

PB pipe		
Application field	CLASS 4	For use with hot and cold water (T_{max} 60 °C)
	CLASS 5	For use with hot and cold water (T_{max} 80 °C)

Outside diam. (mm)	Thickness (mm)	Weight (g/m)	CLASS 4 (bar)	CLASS 5 (bar)	Water content (l/m)
6	1	15.4	10	10	0,013

Pipe Feature	Value	Unit	Reference law
Standard			DIN 16968
Permeability to oxygen	≤ 0.32	mg O_2 / (m^2 • d)	DIN 4726
Degree of crosslinking	≥ 70	%	
Density	0.920	g/cm^3	ISO 1183
Thermal expansion coefficient at 20 °C	$1.3 • 10^{-4}$	m/(m•K)	
Thermal conductivity	0.22	W/(m•K)	
Softening temperature	> 130	°C	
Elongation at tear at 20° C	> 300	%	ISO 8986-1
Ultimate Tensile Stress at 20 °C	19	MPa	ISO 8986-2
Roughness factor	0.0005		

RDZ
invisible heating and cooling
RDZ S.p.A. V.le Trento, 101 - 33077 SACILE (PN) -Italy
Tel.+39 0434 787511 www.rdz.it rdzcentrale@rdz.it
Fax +39 0434 787522
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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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