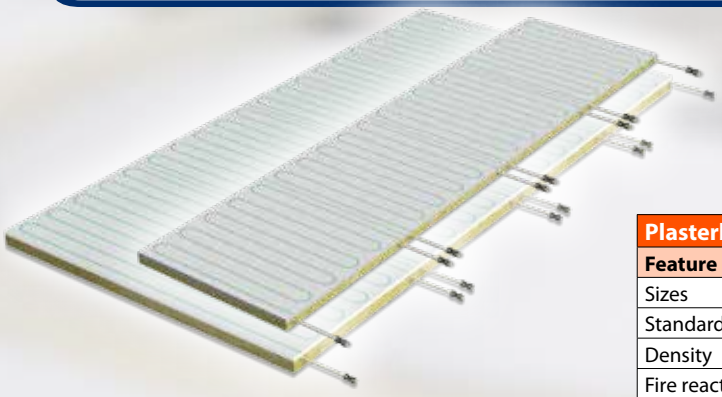
TECHNICAL SHEET

RADIANT PANEL MADE OF PLASTERBOARD WITH INSULATING ROCKWOOL

b!klimax+ radiant panels are made up up of plasterboard and a insulation layer of rockwool. The plasterboard shows a drawing of the hydraulic circuits. b!klimax+ radiant panels contain 4 hydraulic circuits, made of PB pipe O 6 mm with anti-oxygen barrier according to DIN 4726 and provided with push-fit fittings. Pipes are fixed to the panel through an aluminium metal diffuser, while thermal insulation is represented by a layer of rockwool, thickness 40 mm and density 165 Kg/m³, specifically designed to accommodate PB pipes.



Radiant Panel	Weight (Kg)	Code
Radiant panel 600x2400	23.8	6142260
Radiant panel 1200x2400	47.6	6142200

Plasterboard Panel				
Feature	**600**	**1200**	**Unit**	**Standard**
Sizes	600x2400	1200x2400	mm	
Standard thickness:	12.5		mm	
Density	760		Kg / m³	
Fire reaction	A2-s1,d0			
Thermal conductivity	0.20		W / (m . K)	
Water vapour diffusion	10			EN 10456

Rockwool Panel					
Feature		**600**	**1200**	**Unit**	**Standard**
Size of insulating panel		600x2400	1200x2400	mm	UNI 822
Standard thickness		40		mm	UNI 823
Declared thermal conductivity	λd	0.040		W/(m • K)	UNI EN 12667, 12939
Thermal resistance	Rd	1		(m² • K)/W	
Resistance to compression 10%	σ_{10}	70		kPa	UNI EN 826
Resistance to point load	F_p	600		N	UNI EN 12430
Tensile bond strength:	σ_{mt}	15		kPa	UNi EN 1607
Water vapour diffusion resistance factor	μ	1			UNI EN 12086
Short term water absorption by partial immersion	Ws	< 1		kg/m²	EN 1609
Long term water absorption by immersion	Wl(p)	< 3		kg/m²	EN 12087
Specific heat	C_p	1030		J / (KgK)	UNI EN 10456
Density	ρ	165		Kg / m³	UNI EN 1602
Reaction to fire	Euroclass	A1			UNI EN 13501-1
Declaration according to UNI EN 13162	MW-EN 13162 T5-CS(10/Y)70-PL(5)600-TR15-DS(TH)-DS(T+)-MU1-WS-WL(p)				

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 / (m² • d)	DIN 4726
Degree of crosslinking	≥ 70	%	
Density	0.920	g/cm³	ISO 1183
Thermal expansion coefficient at 20 °C	$1.3 \cdot 10^{-4}$	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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