B!KLIMAX 8+ RADIANT PANEL
POLYSTYRENE INSULATION

TECHNICAL SHEET

b!klimax 8+ radiant panels are made up of plasterboard and a insulation layer of polystyrene. The plasterboard shows a drawing of the hydraulic circuits. b!klimax 8+ radiant panels contain 2 hydraulic circuits, made of PE-RT pipe Ø 8 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 moulded polystyrene, thickness 40 mm and density 30 Kg/m³, specifically designed to accommodate PB pipes.

Radiant Panel	Weight (Kg)	Code
Radiant panel 600x2400x52	14,9	6142170
Radiant panel 1200x2400x52	29,5	6142115

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

Polystyrene Panel					
Features		**600**	**1200**	**Unit**	**Standard**
Size of the panel		600x2400	1200x2400	mm	UNI EN 822
Standard thickness		40		mm	UNI EN 823
Thickness of the insulating base		32		mm	UNI EN 1264-3
Bending strength	BS	170		kPa	UNI EN 12089
Compressive stress at 10% deformation	CS(10)	120		kPa	UNI EN 826
Thermal conductivity at 10 °C	λd	0,035		W/(m • K)	UNI EN 12667
Thermal resistance	Rd	1,10		(m² • K)/W	UNI EN 12667
Thermal transmittance	U	0,90		W/(m² • 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 / m²	UNI EN 12087
Long term water absorption by total immersion	Wl(T)	≤3		%	UNI EN 12087
Reaction to fire	Euroclass	E			EN ISO 11925-2
Limit of operating temperature		70		°C	
Declaration according to UNI EN 13163	T1-L3-W2-S2-P5-BS170-CS(10)120-DS(70,-)1-WL(T)3-MU(30-70)				

PE-RT Pipe				
Application field	CLASS 4	For use with hot and cold water	T_{max} 70 °C	Pressure 8 bar
	CLASS 5	For use with hot and cold water	T_{max} 90 °C	Pressure 6 bar

Outside diam. (mm)	Thickness (mm)	Circuit Lenght (m)		Weight (g/m)	Water content (l/m)
		600	**1200**		
8	1	12	24	22	0,028

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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