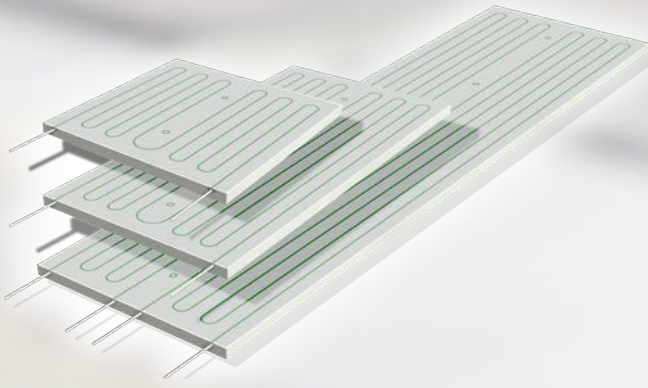


600-1200-2200 B!KLIMAX RADIANT PANEL

b!klimax radiant panel is made of polystyrene, thickness 40 mm, and it includes PE-HDXc 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	λ_d	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	WI(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)					

PE-HDXc pipe								
Outer diameter (mm)	Thickness (mm)	S-value	SDR-value	CLASS 4		CLASS 5		Water Content (l/m)
6	1	2.5	6	T _{MAX} 60 °C	10 bar	T _{MAX} 80 °C	10 bar	0,013

S = nominal pipe serial number according to ISO 4065, SDR = standard dimension ratio, allocation of SDR values, according to DIN 16893 and/or DIN EN ISO 15875-2

Feature		Value	Unit	Reference law
Degree of cross-linking	23°C	≥ 60	%	DIN 16892
Density	23°C	≈ 0.94	g/cm ³	DIN 16892/DIN 53479
Flexural impact strength according to Charpy	23°C	no failure	kJ/m ²	DIN EN ISO 179-1/2
Tensile strength	23°C	24 ÷ 30	N/mm ²	DIN EN ISO 6259-1
Tenacity	23°C	24 ÷ 26	N/mm ²	DIN EN ISO 6259-1
Elongation at break	23°C	400 ÷ 600	%	DIN EN ISO 6259-1
Elastic modulus (Emodule)	23°C	600 ÷ 800	N/mm ²	DIN 16892/DIN EN ISO 128
Stress crack resistance		no failure		ASTM D 1693
Moisture absorption		<0,01	mg (4d)	DIN EN ISO 62
Coefficient of linear expansion	0°C – 70°C	1,5 · 10 ⁻⁴	1/K	DIN 16892 / DIN 53752
Thermal conductivity		≤ 0,41	W/(K · m)	DIN 16892 / DIN EN 12664
Smallest bend radius		≥ 5 · D	mm	DIN 4726
Oxygen tightness	40°C	≤ 0,32	mg/(m ² · d)	DIN 4726

