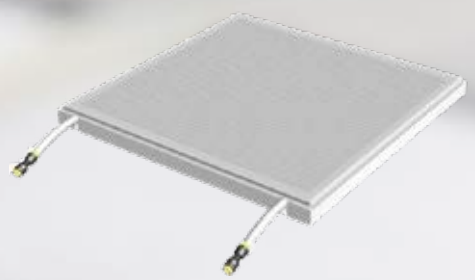
TECHNICAL SHEET

RDZ

QUADROTTO JPF

B!klimax+ Quadrotto JPF consists of a metal plafond made of steel 5/10 post-painted, base 15/24 mm, lowered by 8 mm, right angle, micro-perforated surface with a smooth perimeter of 20 mm. The hydraulic circuit, made of PB pipe O 6 mm with anti-oxygen barrier according to DIN 4726, is fixed to the panel through an aluminium metal diffuser. Thermal insulation is represented by a moulded, shaped polystyrene layer, thickness 40 mm. RAL 9016.



Product	Weight (Kg)	Code
Metal radiant quadrotto 600x600 JPF	1.9	6141600

Metal Plafond		
Feature	**600**	**Unit**
Material	Steel 5/10	
Smooth perimeter	20	mm
Base	15	mm
Rebate	8	mm

Polystyrene Panel				
Features		**600**	**Unit**	**Standard**
Size of the panel		593x593	mm	UNI EN 822
Standard thickness		40	mm	UNI EN 823
Thickness of the insulating base:		34	mm	UNI EN 1264-3
Equivalent thickness:		37.0	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	1.05	$(m^2 • K)/W$	UNI EN 12667
Thermal transmittance	U	0.95	$W/(m^2 • K)$	
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, 70 °C	DS(70,-)	1	%	UNI EN 1604
Long term water absorption by partial immersion	WL(P)	0.5	Kg / m^2	UNI EN 12087
Long term water absorption by total immersion	WL(T)	≤3	%	UNI EN 12087
Resistance 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)			

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		

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

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