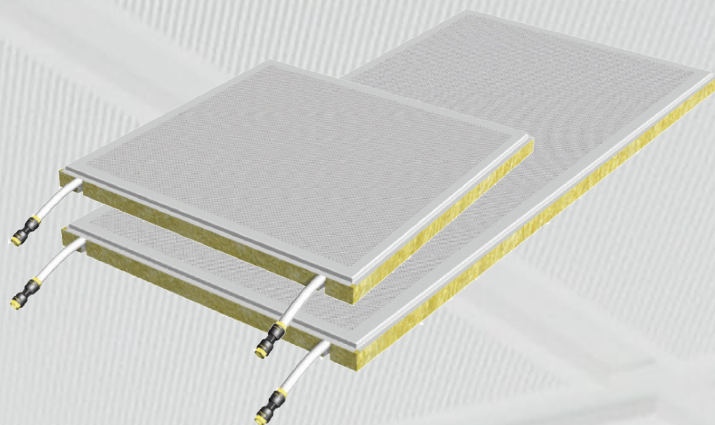


QUADROTTO WITH INSULATING ROCKWOOL



B!klimax+ Quadrotto 600x600 consists of a metal plafond made of steel 5/10 postpainted, base 15/24 mm, lowered by 8 mm, right angle, micro-perforated surface with a smooth perimeter of 20 mm. One 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 rockwool layer, thickness 40 mm and density 165 Kg/m³. RAL 9016.



Radiant Quadrotto	Weight (Kg)	Code
Metal radiant quadrotto 600x600	4.1	6140610
Metal radiant quadrotto 1200x600	7.2	6141210
Feature		
Reaction to fire class for front panel	B - s2 - d0	
Test reference standard	UNI EN ISO 11925-1	
Class reference standard	UNI EN 13501	

Metal Plafond				
Feature	600	1200	Unit	Standard
Material	Steel 5/10			
Smooth perimeter	20		mm	
Base	15	24	mm	
Rebate	8		mm	

Rockwool Panel					
Feature		600	1200	Unit	Standard
Size of insulating panel		600x600	1200x600	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	WI(p)	< 3		kg/m²	EN 12087
Specific heat	C _p	1030		J / (KgK)	UNI EN 12524
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 / (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		