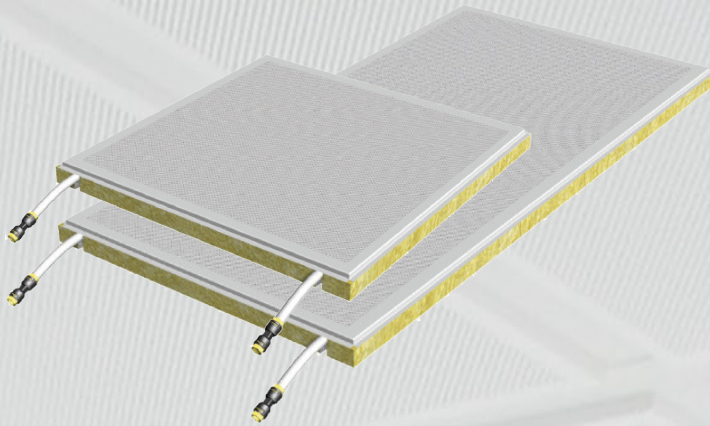


## QUADROTTO WITH INSULATING ROCKWOOL



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 PE-HDXc pipe Ø 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/m<sup>3</sup>. RAL 9016.



Radiant Quadrotto	Weight (Kg)	Code
Metal radiant quadrotto 600x600	3.6	6140610
Metal radiant quadrotto 1200x600	7.5	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	$\lambda_d$	0.040		W/(m · K)	UNI EN 12667, 12939
Thermal resistance	Rd	1		(m <sup>2</sup> · K)/W	
Resistance to compression 10%	$\sigma_{10}$	70		kPa	UNI EN 826
Resistance to point load	F <sub>p</sub>	600		N	UNI EN 12430
Tensile bond strength:	$\sigma_{mt}$	15		kPa	UNI EN 1607
Water vapour diffusion resistance factor	$\mu$	1			UNI EN 12086
Short term water absorption by partial immersion	Ws	< 1		kg/m <sup>2</sup>	EN 1609
Long term water absorption by immersion	Wl(p)	< 3		kg/m <sup>2</sup>	EN 12087
Specific heat	C <sub>p</sub>	1030		J / (KgK)	UNI EN 12524
Density	$\rho$	165		Kg / m <sup>3</sup>	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)			

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 <sub>MAX</sub> 60 °C	10 bar	T <sub>MAX</sub> 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 ISO15875-2

Feature		Value	Unit	Reference law
Degree of cross-linking	23°C	≥ 60	%	DIN 16892
Density	23°C	≈ 0.94	g/cm <sup>3</sup>	DIN 16892/DIN 53479
Flexural impact strength according to Charpy	23°C	no failure	kJ/m <sup>2</sup>	DIN EN ISO 179-1/2
Tensile strength	23°C	24 ÷ 30	N/mm <sup>2</sup>	DIN EN ISO 6259-1
Tenacity	23°C	24 ÷ 26	N/mm <sup>2</sup>	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 <sup>2</sup>	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 <sup>-4</sup>	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 <sup>2</sup> · d)	DIN 4726

