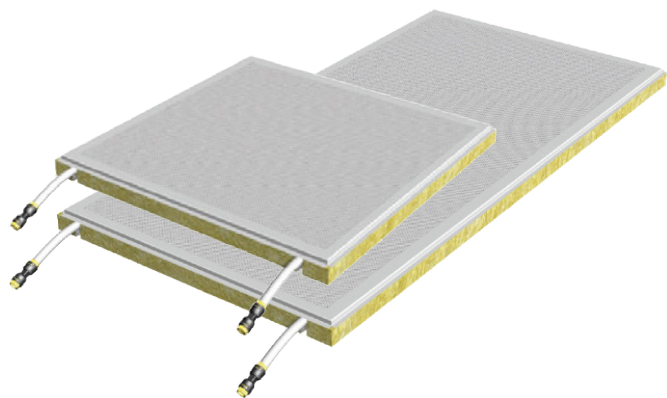


## TECHNICAL SHEET



B!klimax+ Quadrotto 600x600 consists of a metal plafond made of steel 5/10 postpainted, lowered by 8 mm, right angle, micro-perforated surface with a smooth perimeter of 20 mm. One hydraulic circuit, made of PE-HDXc pipe  $\varnothing$  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	Base (mm)	Code
Metal radiant quadrotto 600x600	4,1 kg	15	6140610
		24	6140646
Metal radiant quadrotto 1200x600	7,2 kg	24	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
Material	Steel 5/10		
Smooth perimeter	20		mm
Base	15 - 24	24	mm
Rebate	8		mm

Rock Wool 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	$R_d$	1		(m <sup>2</sup> · K)/W	
Resistance to compression 10%	$\sigma_{10}$	70		kPa	UNI EN 826
Resistance to point load	$F_p$	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	$W_s$	< 1		kg/m <sup>2</sup>	EN 1609
Long term water absorption by immersion	$W_l(p)$	< 3		kg/m <sup>2</sup>	EN 12087
Specific heat	$C_p$	1030		J / (kg · K)	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