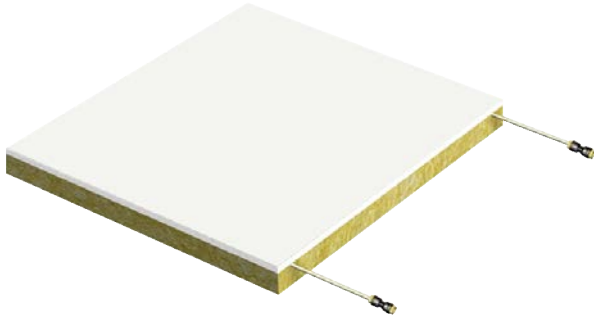


TECHNICAL SHEET



Biklimax+ plasterboard Quadrotto consists of a 9-mm thick non-perforated plasterboard, white colour RAL 9003 with high light reflectance and acoustic reverberation performance. One hydraulic circuit, made of PE-HDXc pipe Ø 6 mm with push-fit fittings and oxygen barrier according to DIN 4726, is fixed to the panel through an aluminium metal diffuser. Size 600x600x50 mm.



Radiant Plasterboard Quadrotto	Weight (Kg)	Code
Radiant Plasterboard Quadrotto 600x600	5,2	6140550

Plasterboard Panel		
Feature	Panel	Unit
Sizes	600x600	mm
Standard thickness	9,5	mm
Reaction to fire	A2-s1,d0	
Thermal conductivity λ	0,2108	W/(m · K)

Rock Wool Panel				
Feature		Value	Unit	Standard
Size of insulating panel		600x600	mm	UNI 822
Standard thickness		40	mm	UNI 823
Declared thermal conductivity	λ_d	0,040	W/(m · K)	UNI EN 12667, 12939
Thermal resistance	Rd	1	(m ² · 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/m ²	EN 1609
Long term water absorption by immersion	WI(p)	< 3	kg/m ²	EN 12087
Specific heat	C _p	1030	J / (KgK)	UNI EN 10456
Density	ρ	165	Kg / m ³	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 _{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 ISO15875-2								

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