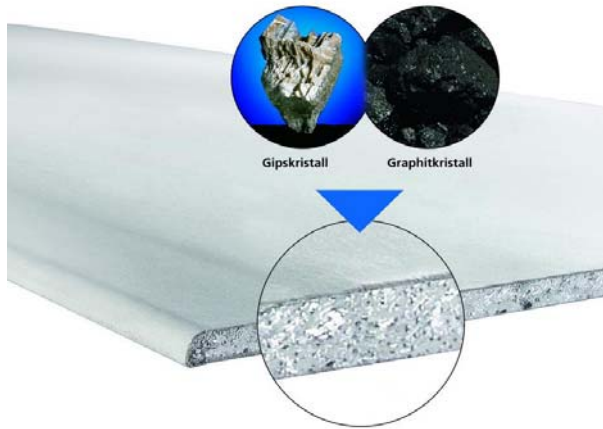


Rigips Climafit 10



- best thermal conductivity > 0.5 W/(mK)
- for graphite modified plasterboards



- highest reduction of electromagnetic waves - up to 99.999 %
- for graphite modified plasterboards




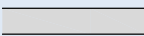
- approved safety in the system Prothermo and Protecto



- consisting of natural materials
- gypsum and graphite

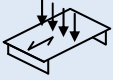
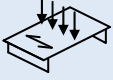
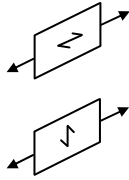
Characteristics	Rigips Climafit boards are composed of a graphite-modified gypsum board. The special feature is the very good thermal conductivity and protection against electromagnetic Waves.
Application	Thanks to their excellent thermal conductivity properties, it is used as planking of high performance air conditioning systems and/ or protection against electromagnetic Waves.
Installation	Rigips Climafit boards have to install according to the Rigips installation leaflet and DIN 18181.

Technical data

Type	Gypsum plasterboard type A				as per DIN EN 520
	non-combustible European Classification: A2-s1, d0 (B)				as per DIN EN 520
Edge profile	Longitudinal edges		Vario		
		Designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.			
Dimensions	Transverse edges		SK		
	Nominal thickness	10	[mm]		
Dimensions	Width x Lengths	For possible dimensions please consult our delivery programme. Special lengths (intermediate sizes, overlength) and sheet cutting possible - delivery time on request.			
	Dimensional tolerances	Thickness	±0.5	[mm]	as per DIN EN 520
		Width	+0/-4	[mm]	
Length	+0/-5	[mm]			
Squareness: deviation per m width	≤ 2.5	[mm/m]			

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Rigips Climafit 10

Rigips Climafit 10					
Plasterboard marking	On rear side	The marking in longitudinal direction in blue contains: <ul style="list-style-type: none"> - RIGIPS Climafit - CE-symbol - DIN EN 520: type A - A2-s1, d0 (B) - Production date and/or shift number Generally, together with the lettering, a row of dots mark the board centre within a strip of ca. 5 cm width (position of the metal stud sections for walls).			
	On front side	To ease installation, the board centre is marked with the letters RB which are 3-5mm high and located at a distance of about 250 mm (screw spacing) from each other. The position tolerance of the marking from the board centre is ± 2 cm max.			
	Edge marking	„RIGIPS Climafit 10,0“ at the longitudinal edge in blue			
Weight	Weight per unit area	≥ 8.5	[kg/m ²]		
	Apparent density	≥ 850	[kg/m ³]		
Strengths	Breaking load	\perp perpendicular to direction of manufacture in longitudinal direction of the board			as per DIN EN 520
			≥ 430	\perp [N]	
		≥ 168	\parallel [N]		
		\parallel parallel to direction of manufacture in transverse direction of the board			as per DIN EN 520
	Bending tensile strength	≥ 7.5	\perp [N/mm ²]		
		≥ 2.9	\parallel [N/mm ²]		
Compressive strength vertical to the surface	5-10	[N/mm ²]			
Tensile strength	1.8-2.5	[N/mm ²]			
	in longitudinal direction				
	1.0-1.2	[N/mm ²]			
	in cross direction				
Shear strength	NPD	[N]	Strength of the connection (board – subconstruction)	as per DIN EN 520	

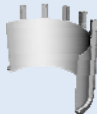

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Heat	Thermal conductivity $\lambda_{10,dry}$	0.52	[W/(m x K)]	as per DIN EN 520		
	Thermal expansion coefficient at 60% RH	0.013-0.020	[mm/(m x K)]			
	Thermal threshold stress (long-term load)	max. 50	[°C]	short-term load 60°C		
Humidity	Vapour diffusion resistance factor μ	dry 10 wet 4	[–] [–]	as per DIN EN 520		
	Diffusion equivalent air layer thickness s_d	dry 0.10 wet 0.04	[m] [m]	as per DIN 4108		
	Dilatation due to changing of relative humidity by 30% (20°C)	0.015	[%]			
	Strength of shape	max. 80% rel. humidity	[%]			
screening attenuation	screening attenuation UHF, DVB-T	single-layer 20 two layer 24	[dB]	frequency	470	[MHz]
	screening attenuation GSM 900	single-layer 20 two layer 24	[dB]	frequency	900	[MHz]
	screening attenuation DAB	single-layer 23 two layer 34	[dB]	frequency	1500	[MHz]
	screening attenuation GSM 1,800	single-layer 25 two layer 41	[dB]	frequency	1800	[MHz]
	screening attenuation DECT	single-layer 27 two layer 42	[dB]	frequency	1900	[MHz]
	screening attenuation UMTS	single-layer 27 two layer 39	[dB]	frequency	2100	[MHz]
	screening attenuation Wlan (IEEE 802,11g)	single-layer 30 two layer 41	[dB]			
	screening attenuation WiMax (IEEE 802,16)	single-layer 31 two layer 41	[dB]			
	screening attenuation WiMax (IEEE 802,11a)	single-layer 32 two layer 52	[dB]			
	screening attenuation ship radar	single-layer 42 two layer 51	[dB]			
Absorption	Absorption GSM 900	46	[%]	frequency	900	[MHz]
	Absorption GSM 1,800	46	[%]	frequency	1800	[MHz]
	Absorption Wlan/ Microwave	62	[%]	frequency	2450	[MHz]

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Bending radii	concave	dry wet	$\geq 2,500$ $\geq 2,000$	[mm]					
	convex	dry wet	$\geq 2,500$ $\geq 2,000$	[mm]					
Sign	The values given in this product data sheet solely describe the performance characteristics of the products. Rigips-Systems also have far-reaching structural-physical and static properties, which can be found in our system documentation (e.g. Planen und Bauen).								

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