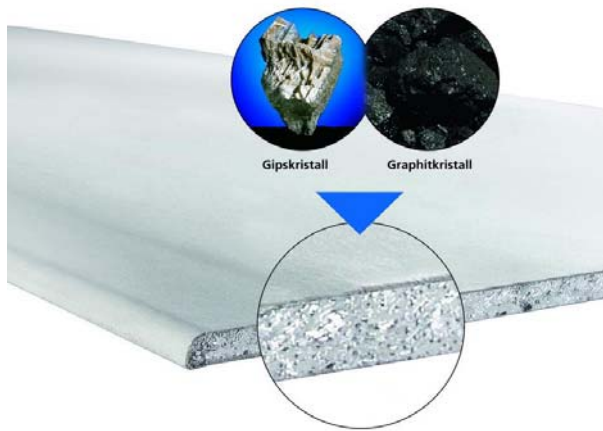


## Rigips Climafit 10



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



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




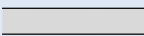
- approved safety in the system Prothermo and Protecto



- consisting of natural materials  
- gypsum and graphite

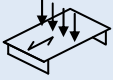
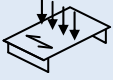
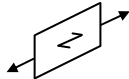
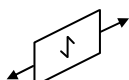
<b>Characteristics</b>	Rigips Climafit boards are composed of a graphite-modified gypsum board. The special feature is the very good thermal conductivity and protection against electromagnetic Waves.
<b>Application</b>	Thanks to their excellent thermal conductivity properties, it is used as planking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

### Technical data

<b>Type</b>	Gypsum plasterboard type A				as per DIN EN 520	
	non-combustible European Classification: A2-s1, d0 (B)				as per DIN EN 520	
<b>Edge profile</b>	Longitudinal edges		Vario			
		Designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.				
<b>Edge profile</b>	Transverse edges		SK			
<b>Dimensions</b>	Nominal thickness	10	[mm]			
	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]		
		Width	+0/-4	[mm]		
Length		+0/-5	[mm]			
Squareness: deviation per m width		≤ 2.5	[mm/m]	as per DIN EN 520		

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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"> <li>- RIGIPS Climafit</li> <li>- CE-symbol</li> <li>- DIN EN 520: type A</li> <li>- A2-s1, d0 (B)</li> <li>- Production date and/or shift number</li> </ul> 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 $\pm 2$ cm max.			
	Edge marking	„RIGIPS Climafit 10,0“ at the longitudinal edge in blue			
Weight	Weight per unit area	$\geq 8.5$	[kg/m <sup>2</sup> ]		
	Apparent density	$\geq 850$	[kg/m <sup>3</sup> ]		
Strengths	Breaking load	$\perp$ perpendicular to direction of manufacture in longitudinal direction of the board			as per DIN EN 520
			$\geq 430$	$\perp$ [N]	
		$\geq 168$	$\parallel$ [N]		
		$\parallel$ parallel to direction of manufacture in transverse direction of the board			as per DIN EN 520
	Bending tensile strength	$\geq 7.5$	$\perp$ [N/mm <sup>2</sup> ]		
		$\geq 2.9$	$\parallel$ [N/mm <sup>2</sup> ]		
Compressive strength vertical to the surface	5-10	[N/mm <sup>2</sup> ]			
Tensile strength	1.8-2.5	[N/mm <sup>2</sup> ]			
	in longitudinal direction				
	1.0-1.2	[N/mm <sup>2</sup> ]			
in cross direction					
Shear strength	NPD	[N]	Strength of the connection (board – subconstruction)	as per DIN EN 520	

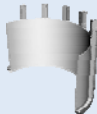

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Heat	Thermal conductivity $\lambda_{10,dry}$	0.52	[W/(m x K)]	as per DIN EN 520		
	Thermal expansion coefficient at 60% RH	0.013-0.020	[mm/(m x K)]			
	Thermal threshold stress (long-term load)	max. 50	[°C]	short-term load 60°C		
Humidity	Vapour diffusion resistance factor $\mu$	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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## Rigips Climafit 10

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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