Rigips Clima Top

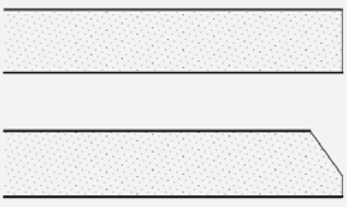
For the feel good factor, a constant room climate is important; this applies to work places as well as homes. To comply with this requirement, coolant / heating systems for walls and ceilings have been developed into top functional systems. These systems (cooling and heating coils) are lined with special Clima Top plasterboards.

The high thermal conductivity of the board or its "bad" heat insulation result in a high efficiency of the cooling and heating systems.

Rigips Clima Top boards are also available as Rigiton perforated boards.

Rigips Clima Top wallboards are to be processed as per the Rigips installation guidance and as per DIN 18181.

Technical Data

	Proof	**as per DIN 18180 / ÖNORM B 3410**	**gypsum plasterboards GKB**	
	Classification	**as per DIN 4102 - 1**	**non-combustible A2**	
Edge profile	**Longitudinal edges**	**designed for filling of joints with Rigips Vario joint filler, either with or without reinforcing strips.**	 Vario	
	Transverse edges		 SK **l = 2,0 m with bevelled transverse edge**	

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Clima Top plasterboards	On rear side	Marking of longitudinal direction in blue o RIGIPS CLIMA TOP Ü o DIN 18180 GKB o DIN 4102-A2 ÖNORM 83410 GKB ISO 6308 geprüft o MPA Stuttgart ÜA H-8.1 1-02-0130 o Bad Aussee Date + Time Generally, a row of dots complements the board marking which, together with the lettering in the board centre mark a strip of ca. 5 cm width (position of metal stud sections for walls).
	On front side	To ease installation, the board centre is marked with red dots located at a distance of about 250 mm (screw spacing) from each other. The position tolerance of the marking from the board centre is ± 2cm max.
	Edge marking	"RIGIPS VARIO 10,0" at the longitudinal edge

Dimensions	Nominal thickness	10,0		[mm]
	Width	1250		[mm]
	Lengths	2000 2500 (on request) Special lengths (intermediate sizes, overlength) and sheet cutting possible – delivery time on request.		[mm]
	Dimensional tolerances	Thickness Width Length Squareness	±0,5 +0/-5 +0/-5 ≤6	[mm] (dimensional deviation from diagonal)

Weight	Weight per unit area m´	ca. > 10	[kg/m²]

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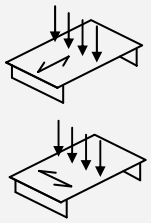
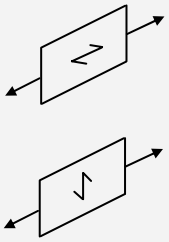
	Breaking load	as per DIN 18180	⊥ ≥ 600 ∥ ≥ 180	[N]
			⊥ perpendicular to direction of manufacture (in longitudinal direction of the board) ∥ parallel to direction of manufacture (in transverse direction of the board)	
Strengths	Deflection	as per DIN 18180	⊥ ≤ 0,8 ∥ ≤ 1,0	[mm]
	Bending tensile strength		⊥ ≥ 7,2 ∥ ≥ 2,2	[N/mm²]
	Modulus of elasticity		⊥ ≥ 2.500 ∥ ≥ 2.000	[N/mm²]
	Surface hardness	as per Brinell	ca. 10 – 20	[N/mm²]
	Compressive strength vertical to the surface		ca. 5 – 10	[N/mm²]
	Tensile strength		In longitudinal direction of the board: ca. 1,8 – 2,5 In transverse direction of the board: ca. 1,0 – 1,2	[N/mm²]
	Shear strength		Parallel to surface: ca. 2,5–4,0 Vertical to surface: ca. 3,0–4,5	[N/mm²]
	Adhesive strength of jointing compound & gypsum glue	at 20°C 65% RH	ca. 0,3	[N/mm²]

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Humidity	Vapour diffusion resistance factor	as per DIN 4108	8		[—]
	Diffusion equivalent air layer thickness s_d	as per DIN 4108	0,1		[m]
	Water absorption for 2 h fully immersed in water		30 – 50		[% by weight]
	Vapour diffusion resistance factor	as per DIN 4108	ca. 70		[h]
	Capillary rise of water (front edge immersed)		after 0,5 h: after 2 h: after 24 h:	3 – 4 7 – 8 20 – 22	[cm]
	Moisture absorption / *equilibrium moisture content* (depending on room climate)	at 20°C	40% RH: 60% RH: 80% RH:	0,3 – 0,6 0,6 – 1,0 1,0 – 2,0	[% by weight]
	Change in length for a 30% change in RH	at 20°C	0,015		[%]

Other	Crystalline bonded water inside gypsum core		ca. > 16		[%]
	Thermal threshold stress (long-term load)		max. 50		[°C]
	El. surface resistance at 100 V, 20°C and 65% RH	as per DIN 53486	front side: rear side:	$3{,}5 \cdot 10^8 – 5 \cdot 10^8$ $6{,}5 \cdot 10^8 – 10 \cdot 10^8$	[Ω]
	El. volume resistance at 100 V, 20°C and 65% RH	as per DIN 53486	$2 \cdot 10^9$		[Ω]
	Alkalinity (pH value)		6 – 9		[—]

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