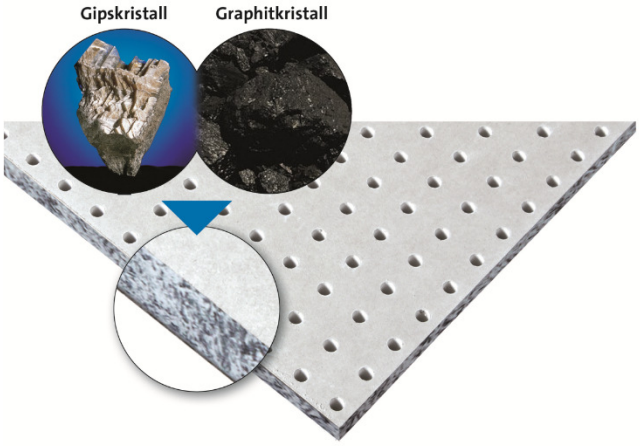
Product data sheet

Rigitone Climafit 10



Rigitone Climafit boards are composed of a graphite-modified perforated gypsum board with a black acoustic tissue on the back. The very good thermal conductivity of > 0.5 W/(m x K) in combination with the excellent acoustical properties makes it suitable as a high performance board for heating and cooling ceilings. Rigitone Climafit is the perfect solution for living spaces with acoustical needs like f.e. offices or schools. Rigitone Climafit boards have to be installed according to the Rigips installation Guidelines and DIN 18181. With the pre-sanded and primed edges Rigitone Climafit boards are ready to install. There is no preparation work of the edges needed at the jobsite.

Technical data					
Type	Graphite-modified perforated gypsum board				as per DIN EN 14190
	non-combustible European Classification: A2-s1, d0				as per DIN EN 14190
Edge	Longitudinal edges	SK	SK		
		designed for filling of joints with Rigips VARIO joint filler or Rigitone Mix			
	Transverse edges	SK	SK		
Dimensions	Nominal thickness	10	[mm]		
	Width x Length	For possible dimensions please consult our delivery program			
	Dimensional tolerances	Thickness Width Length Squareness: dimensional deviation from diagonal)	±0.5 ±1.0 +1/-1.5 ≤ 1	[mm] [mm] [mm] [mm/m]	as per DIN EN 520

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Plasterboard marking	On rear side	no mark (Rigitone Climafit is as usual laminated with an acoustic tissue on the back)			
	Edge marking	Rigitone Climafit ORIGINAL RIGIPS SPACHTELFUGE* (exception for: 8-15-20 Super R, 12-20-35 R → ORIGINAL RIGIPS) One board side is marked with a chalk line. The chalk line indicates the installation direction.			
	Pallet label	The marking on the pallet label contains: - installation technique: with filling or adhesive joint - order No. - dimension - manufacturing date - CE-marking - A2-s1,d0			
Hole patterns	Square perforation	8/18 Q; 12/25 Q			
	Round perforation	6/18 R; 8/18 R		available on request: 10/23 R; 12/25 R; 15/30 R	
	Offset round perforation			available on request: 12-20/66 R	
	Scattered perforation	8-15-20 super R		available on request: 8-15-20 R; 12-20-35 R	
Weight	Weight per unit area	ca. 6.5-8.5	[kg/m²]	depends on the pattern	as per DIN 18180
	Apperent density	ca. 850	[kg/m³]	unperforated	as per DIN 18180
Heat	Thermal conductivity λ_R	≥ 0.66	[W/(m x K)]		as per DIN EN 12664
	Thermal conductivity $\lambda_{10, dry}$	≥ 0.52	[W/(m x K)]		as per DIN EN 12664
	Thermal threshold stress (long term load)	max. 50	[°C]	short-term load 60°C	
Humidity	Dilatation due to changing of relative humidity by 30% (20°C)	0.015	[%]		
	Strength of shape	max. 80% rel. humidity max. 70% rel. humidity	[%] [%]	unperforated perforated	
Acoustic	Acoustic properties	according to ISO 345			
	Acoustic tissue (lightgrey)	ca. 50	[g/m²]	paperbased	
	Percent of perforation	8-23	[%]	depends to the pattern	

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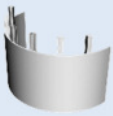
Bending radii

Perforation	dry		wet		
	concave	convex	concave	convex	
					
Round perforation	≤ 2,500	≤ 2,500	≤ 2,000	≤ 2,000	[mm]
Offset round perforation	≤ 2,500	≤ 2,500	≤ 2,000	≤ 2,000	[mm]
Square perforation	≤ 2,500	≤ 2,500	≤ 1,500	≤ 1,500	[mm]
Scattered perforation	≤ 2,500	≤ 2,500	≤ 2,000	≤ 2,500	[mm]

Load

Max. load for perforated boards	≤ 3	[kg/m²]

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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