

Rigitone (perforated plasterboard)



Rigitone is a synonym for a wide range of high-quality perforated boards with acoustic absorption characteristics made from the environmentally compatible material gypsum. Rigitone is mounted in a jointless ceiling system and thus offer a monolithic and architecturally pleasing appearance.

Rigitone boards are available with an acoustic tissue in black or white.

Available patterns of perforation:

6/18; 8/18; 10/23; 12/25; 15/30; 8-12/50; 12-20/66; 8/18 Q, 12/25 Q; 8-15-20; 8-15-20 super; 12-20-35

Application:

Rigitone is applied wherever the improvement of room acoustic properties and a jointless ceiling design are required.

Installation:

As per Rigips installation guidelines and as per DIN 18168 and 18181.

Technical Data

Proof	as per EN 14190	Plasterboards from reprocessing
Classification	as per EN 13501-1	A2-s1,d0 (C.4) non-combustible as per Building Regulations List A Part 1, Annex 0.2.2

Edge profiles	Sharp-edged on four sides.	designed for filling of joints with Rigips VARIO joint filler, or for gluing with jointing compound 63	

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Plasterboard marking	Edge marking	Laying technique: with filling or gluing joint, order no. , dimension, manufacturing date One board side is marked with a chalk line and thereby indicates the laying direction.
	Pallet label	The marking on the pallet label contains: <ul style="list-style-type: none"> • Laying technique: with filling or gluing joint • order no. • dimension • manufacturing date • CE-marking • A2-s1,d0 (C.4)

Dimensions	Nominal thickness		12,5	[mm]
	Width		ca. 1.200 (depends upon perforation)	[mm]
	Length		ca. 2.000 (depends upon perforation)	[mm]
	Dimensional tolerances		Thickness $\pm 0,5$ Width ± 1 Length $+1/-1,5$ Squareness <1 (dimensional deviation from diagonal)	[mm]

Weight	Apparent density		ca. 600 - 800 (depends upon perforation)	[kg/m ³]
	Weight per unit area m ²		ca. 8 - 10 (depends upon perforation)	[kg/m ²]

Strength	Surface hardness	as per Brinell	ca. 10 - 18	[N/mm ²]
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Heat	Specific heat capacity c	at 20 °C	0,96	[kJ/(kg*K)]
	Thermal expansion coefficient	at 60% RH	ca. 0,013 - 0,020	[mm/(m*K)]

Humidity	Moisture absorption / equilibrium moisture content (depending on room climate)	at 20°C	40% RH: 0,3 - 0,6 60% RH: 0,6 - 1,0 80% RH: 1,0 - 2,0	[% by weight]
	Hygroexpansivity for a 30% change in RH	at 20°C	0,015	[%]

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Other	Crystalline bonded water inside gypsum core	ca. 16 - 20	[%]
	Thermal threshold stress (long-term load)	max. 50	[°C]
	Alkalinity (pH value)	6 - 9	[—]

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