

## Product data sheet

# Rigips Plasterboard 9.5



**Product description:** Gypsum plasterboard acc. to DIN EN 520, type A, made of a gypsum core encased in cardboard.

**Area of application:** For installation of wall- and ceiling systems usually without fire protection requirements.



### Technical specifications

Parameters	Sign	Value	Unit	Certification
<b>Material</b>				
Material Kind		gypsum plasterboard		
<b>Type</b>				
Type		A		EN 520
		GKB		DIN 18180
<b>Building material class</b>				
Fire behaviour		A2-s1, d0		EN 13501-1
<b>Edges</b>				
Longitudinal edge		VARIO		
Transverse edge		SK, SKF		
<b>Dimensions</b>				
Thickness	t	9.5	mm	EN 520
Width	w	1250	mm	
Length	l	2000 / 2500	mm	

#### Tolerances

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Parameters	Sign	Value	Unit	Certification
Thickness		±0,5	mm	EN 520
Width		+0/-4	mm	
Length		+0/-5	mm	
Perpendicularity: deviation per meter of width		≤2,5	mm/m	

### Certification Weight

Surface-related mass	≥	6.5	kg/m <sup>2</sup>	DIN 18180
Bulk density	≥	680	kg/m <sup>3</sup>	EN 520

### Characteristic strength values

Bending breaking load - in longitudinal direction of the board	≥	160	N	EN 520 / DIN 18180
Bending fracture load - in transverse direction of the board	≥	410	N	
Bending tensile strength - parallel to the fibre (in the transverse direction of the sheet)		3.1	N/mm <sup>2</sup>	Calculated
Bending tensile strength - transverse to the fibre (in the longitudinal direction of the panel)		8.0	N/mm <sup>2</sup>	
Modulus of elasticity - parallel to the fibre (in the transverse direction of the board)	≥	2000	N/mm <sup>2</sup>	DIN 18180
Modulus of elasticity - transverse to the fibre (in the longitudinal direction of the panel)	≥	2500	N/mm <sup>2</sup>	
Adhesion strength - of joint spatula	≥	0,25	N/mm <sup>2</sup>	EN 13963
Shear strength - of the connection between panel and substructure		NPD	N	EN 520
Compressive strength - perpendicular to the surface approx.		5-10	N/mm <sup>2</sup>	Gypsum data book
Surface hardness - according to Brinell		10-18	N/mm <sup>2</sup>	EN ISO 6506-1

### Heat

Limit load by heat (long-term exposure)		max. 50 (at short until 60)	°C	Gypsum data book
Coefficient of thermal expansion at 60% relative humidity approx.		0,013-0,020	mm/(m.K)	
Specific heat capacity c at 20°C	c	0.96	kJ/(kg.K)	
Thermal conductivity	λ <sub>R</sub>	0.25	W/m.K	EN 520

### Humidity

Moisture expansion when the RH changes by 30% (20°C)		0.015	%	EN 318
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Moisture absorption at 20°C, 80% rel. h. approx.»		1,0-2,0	mass-%	Gypsum data book
Moisture absorption at 20°C, 60% rel. humidity approx.		0,6-1,0	mass-%	
Moisture absorption at 20°C, 40% rel. humidity approx.		0,3-0,6	mass-%	
Capillary rise of water / immersion time approx. 24 h		20-22	cm	
Capillary rise of water / diving time approx. 2 h		7-8	cm	
Capillary rise of water / dive time approx. ½ h		3-4	cm	
Drying time after 2 h water storage approx.		70	hour(s)	Product standard
(total) water absorption after 2 h storage under water		30-50	mass-%	
Water vapour diffusion equivalent air layer thickness	$s_{d_{wet}}$	0.04	m	DIN 4108
	$s_{d_{dry}}$	0.10	m	
Water vapour diffusion resistance factor	$\mu_{wet}$	4		EN 520
	$\mu_{dry}$	10		

### Miscellaneous

Air permeability		$1,4 \cdot 10^6$	$m^3/(m^2 \cdot s \cdot Pa)$	EN 520
pH value		6-9	ph	DIN 53486
Electrical resistance R, 50Hz / 240 V		0	$\Omega$	
Volume resistance at 100 V, 20°C and 65% rel. F		$2 \cdot 10^9$	$\Omega$	
Surface resistance (backside) at 100 V, 20°C and 65% rel. F.		$6,5 \cdot 10^8 - 10 \cdot 10^8$	$\Omega$	DIN 53486
Surface resistance (visible side) at 100 V, 20°C and 65% relative humidity		$3,5 \cdot 10^8 - 5 \cdot 10^8$	$\Omega$	
Crystalline bound water in the plaster core approx.		16-20	%	

### Notes

Storage		Dry Flat and level Shady Air access		
Shelf Life		Unlimited		
Package Size		According to Pricelist		
Wast key		170802		

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