

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
Material	olgii	Value	onic	Gertineation
Type of material		gypsum plasterboa	ard	
Туре		gypsum plaster bet		
туре		٨		
Туре		A		EN 520
		GKB		DIN 18180
Building material class				
Fire behaviour		A2-s1, d0		EN 13501-1
Edges				
Longitudinal edge		VARIO		
Transverse edge		SK, SKF		
Dimensions				
Thickness	t	9.5	mm	
Width	w	1250	mm	EN 520
Length	1	2000 / 2500	mm	
Tolerances				

Tolerances

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ParametersSigThicknessWidthLengthPerpendicularity: deviation per meter of width	±0. +0,		mm	
Length Perpendicularity:)/-4		
Perpendicularity:	+0,	,	mm	EN 520
		0/-5	mm	
	≤2.	2.5	mm/m	
Nominal Weight				
Surface-related mass \geq	6.5	5	kg/m²	DIN 18180
Bulk density ≥	680	30	kg/m³	EN 520
Characteristic strength values				
Bending breaking load - in parallel direction of the board \geq	160	0	Ν	EN 520 /
Bending fracture load - $$\geq$$ in transverse direction of the board $$\geq$$	410	0	Ν	DIN 18180
Bending tensile strength - parallel to the fibre (in the transverse direction of the sheet)	3.1	I	N/mm²	Calculated
Bending tensile strength - transverse to the fibre (in the longitudinal direction of the panel)	8.0	0	N/mm²	
Tensile strengths - across the board fibre (in board transver- se direction) approx.	1.0)-1.2	N/mm²	Gypsum data boo
Tensile strengths - in longitudinal direction of board approx.	1.8-	3-2.5	N/mm²	
Adhesion strength - 2	0.2	25	N/mm²	EN 13963
Shear strength - of the connection between panel and substructure	NP	Dc	Ν	EN 520
Shear strength - vertical to the surface approx.	3.0	0-4.5	N/mm²	
Shear strength - parallel to the surface approx.	2.5	5-4.0	N/mm²	Gypsum data bool
Compressive strength - perpendicular to the surface approx.	5-1	10	N/mm²	
Surface hardness - according to Brinell	10-	-18	N/mm²	EN ISO 6506-1
Heat				
Thermal conductivity $\lambda_{_{R}}$	0.2	25	W/m.K	EN ISO 10456
Specific heat capacity c at 20°C c	0.9	96	kJ/(kg.K)	
Coefficient of thermal expansion at 60% relative humidity approx.	0.0	013-0.020	mm/(m·K)	Gypsum data bool
Limit load by heat (long-term exposure)		ax. 50 t short until 60)	°C	

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Humidity				
Moisture expansion when the RH changes by 30% (20°C)		0.015	%	EN 318
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. $\frac{1}{2}$ h		3-4	cm	
Drying time after 2 h water storage approx.		70	hour(s)	
(total) water absorption after 2 h storage under water		30-50	mass-%	
Water vapour diffusion equivalent air	sd _{wet}	0.04	m	Calculated
layer thickness	sd _{dry}	0.10	m	Calculated
Water vanour diffusion resistance factor	μ_{wet}	4		
Water vapour diffusion resistance factor	μ_{dry}	10		EN ISO 10456

Miscellaneous

Air permeability	1.4 · 10 ⁶	m³/(m²·s·Pa)	EN 520
pH value	6-9	ph	
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	

The values listed in this product data sheet only reflect the performance characteristics of the products. In addition, gypsum plaster systems have structural and structural properties, which can be found in our system documentation (e. g. Planen und Bauen).