

## **Product data sheet**

## Rigips Die Harte 12.5





**Product description:** Gypsum plasterboard acc. to DIN EN 520, type DFIR, made of a gypsum core with high surface hardness, dense gypsum core encased in cardboard.

**Area of application:** For installation of wall- and ceiling systems with high resistance to mechanical loads and high sound insulation requirements.

## Technical specifications

Parameters	Sign	Value	Unit	Certification
Material		'		
Type of material		gypsum plasterboard		
Typesetting				
Type		DFIR		EN 520
Туре		GKF		DIN 18180
Building material class				
Fire behaviour		A2-s1, d0		EN 13501-1
Edges				
Longitudinal edge		VARIO		
Transverse edge		SK, SKF		
Dimensions				
Thickness	t	12.5	mm	EN 520
Width	W	1250	mm	EN 520
Length	1	2000 / 2500	mm	EN 520
Tolerances				
Thickness		±0.5	mm	EN 520
Width		+0/-4	mm	EN 520
Length		+0/-5	mm	EN 520
Perpendicularity: deviation per meter of width		2.5	mm/m	EN 520
Nominal Weight				
Surface-related mass	≥	12.8	kg/m²	DIN 18180

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Sign	Value	Unit	Certification
≥	1030	kg/m³	EN 520
2	300	N	EN 520 / DIN 18180
≥	725	N	EN 520 / DIN 18180
	3.4	N/mm²	Calculated
	8.1	N/mm²	Calculated
	1.0-1.2	N/mm²	Gypsum data book
	1.8-2.5	N/mm²	Gypsum data book
≥	3500	N/mm²	DIN 18180
≥	4500	N/mm²	DIN 18180
≥	0.25	N/mm²	EN 13963
	NPD	N	EN 520
	3.0-4.5	N/mm²	Gypsum data book
	2.5-4.0	N/mm²	Gypsum data book
	5-10	N/mm²	Gypsum data book
	30 (±3)	N/mm²	EN ISO 6506-1
	approved		EN 520
$\lambda_{_{R}}$	0.25	W/m.K	EN ISO 10456
С	0.96	kJ/(kg.K)	Gypsum data book
С	960.00	kJ/(kg.K)	EN 12524
	0.013-0.020	mm/(m·K)	Gypsum data book
	max. 50 (short term 60)	°C	Gypsum data book
	≥ ≥ ≥ ≥ ≥ ≥	≥ 1030  ≥ 300  ≥ 725  3.4  8.1  1.0-1.2  1.8-2.5  ≥ 3500  ≥ 4500  ≥ 4500  ≥ 0.25  NPD  3.0-4.5  2.5-4.0  5-10  30 (±3)  approved	≥ 1030 kg/m³  ≥ 300 N  ≥ 725 N  3.4 N/mm²  8.1 N/mm²  1.0-1.2 N/mm²  1.8-2.5 N/mm²  ≥ 3500 N/mm²  ≥ 4500 N/mm²  ≥ 0.25 N/mm²  NPD N  3.0-4.5 N/mm²  2.5-4.0 N/mm²  5-10 N/mm²  30 (±3) N/mm²  approved  λ <sub>R</sub> 0.25 W/m.K  c 0.96 kJ/(kg.K) c 960.00 kJ/(kg.K) max. 50 °C

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Parameters	Sign	Value	Unit	Certification
Humidity				
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-%	Gypsum data book
Moisture absorption at 20°C, 40% rel. humidity approx.		0.3-0.6	mass-%	Gypsum data book
Capillary rise of water / immersion time approx. 24 h		20-22	cm	Gypsum data book
Capillary rise of water / diving time approx. 2 h		7-8	cm	Gypsum data book
Capillary rise of water / dive time approx. $\frac{1}{2}$ h		3-4	cm	Gypsum data book
Drying time after 2 h water storage approx.		70	hour(s)	Gypsum data book
Water vapour diffusion equivalent air layer thickness (wet)	sd <sub>wet</sub>	0.05	m	Calculated
Water vapour diffusion equivalent air layer thickness (dry)	sd <sub>dry</sub>	0.13	m	Calculated
Water vapour diffusion resistance factor	$\mu_{\text{wet}}$	4		EN ISO 10456
Water vapour diffusion resistance factor	$\mu_{\text{dry}}$	10		EN ISO 10456
Miscellaneous				
Air permeability		1.4 · 10 <sup>6</sup>	$m^3/(m^2\cdot s\cdot Pa)$	EN 520
pH value		6-9	ph	
Notes				
Storage		Dry Flat and level Shady Air access		
Shelf Life		Unlimited		
Form of delivery		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).