

Rigips Die Dicke 25, MR - Fire protection Plaster-





Product description: Gypsum plasterboard acc. to DIN EN 520, type DFH2R, moistureresistant, made of a special, reinforced gypsum core encased in cardboard.

Area of application: For installation of wall- and ceiling systems with fire protection requirements e. g. in domestic bathrooms and similarly used rooms.



















Hydrophobiert

Anwendung

Anwendung

Baustoffklasse

Gewicht

Plattendicke

Längskante

Querkante

Wetterfeste Lagerung

Technical specifications

Parameters	Sign	Value	Unit	Certification
Material				
Type of material		gypsum plasterboard		
Typesetting				
Туре		DFH2R		EN 520
		GKFI		DIN 18180
Building material class				
Fire behaviour		A2-s1, d0		EN 13501-1
Edges				
Longitudinal edge		VARIO		
Transverse edge		SKF		
Dimensions				
Thickness	t	25	mm	EN 520
Width	w	625	mm	EN 520
Length	I	2000	mm	EN 520

The information in this publication is based on our current technical knowledge and experience. In view of the many factors that may affect processing and application of our products. these data do not relieve the users of our products from the responsibility of carrying out their own inspections and tests, as they only represent general guidelines. They neither do imply any legally binding assurance of certain properties or of suitability for a particular application. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and regulations are observed. We reserve the right to modifications in the interests of technical advancement without prior notice.





Rigips Die Dicke 25, MR - Fire protection Plasterboard (moisture resistant)

Parameters	Sign	Value	Unit	Certification
Tolerances				
Thickness		±1	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	≥	20.0	kg/m²	DIN 18180
Bulk density	≥	800	kg/m³	EN 520

The information in this publication is based on our current technical knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve the users of our products from the responsibility of carrying out their own inspections and tests, as they only represent general guidelines. They neither do imply any legally binding assurance of certain properties or of suitability for a particular application. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and regulations are observed. We reserve the right to modifications in the interests of technical advancement without prior notice.





Rigips Die Dicke 25, MR - Fire protection Plasterboard (moisture resistant)

Parameters	Sign	Value	Unit	Certification
Characteristic strength values				
Bending breaking load - in parallel direction of the board	≥	600	N	EN 520 / DIN 18180
Bending fracture load - in transverse direction of the board	≥	1450	N	EN 520 / DIN 18180
Bending tensile strength - parallel to the fibre (in the transverse direction of the sheet)		1.7	N/mm²	Calculated
Bending tensile strength - transverse to the fibre (in the longitudinal direction of the panel)		4.1	N/mm²	Calculated
Tensile strengths - across the board fibre (in board transverse direction) approx.		1.0-1.2	N/mm²	Gypsum data book
Tensile strengths - in longitudinal direction of board approx.		1.8-2.5	N/mm²	Gypsum data book
Modulus of elasticity - parallel to the fibre (in the transverse direction of the board)	≥	2000	N/mm²	DIN 18180
Modulus of elasticity - transverse to the fibre (in the longitudinal direction of the panel)	≥	2500	N/mm²	DIN 18180
Adhesion strength - of joint filler	≥	0.25	N/mm²	EN 13963
Shear strength - of the connection between panel and substructure		NPD	N	EN 520
Shear strength - vertical to the surface approx.		3.0-4.5	N/mm²	Gypsum data book
Shear strength - parallel to the surface approx.		2.5-4.0	N/mm²	Gypsum data book
Compressive strength - perpendicular to the surface approx.		5-10	N/mm²	Gypsum data book
Surface hardness - according to Brinell		10-18	N/mm²	EN ISO 6506-1
Improved structural cohesion at high temperatures		approved		EN 520
Heat				
Thermal conductivity	$\lambda_{\text{R,Board}}$	0.25	W/(m·K)	EN ISO 10456
Specific heat capacity c at 20°C	С	0.96	kJ/(kg.K)	Gypsum data book
Specific heat capacity	С	0.96	kJ/(kg.K)	EN 12524
Coefficient of thermal expansion at 60% relative humidity approx.		0.013-0.020	mm/(m·K)	Gypsum data book
Limit load by heat (long-term exposure)		max. 50 (short term 60)	°C	Gypsum data book

The information in this publication is based on our current technical knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve the users of our products from the responsibility of carrying out their own inspections and tests, as they only represent general guidelines. They neither do imply any legally binding assurance of certain properties or of suitability for a particular application. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and regulations are observed. We reserve the right to modifications in the interests of technical advancement without prior notice.





Rigips Die Dicke 25, MR - Fire protection Plasterboard (moisture resistant)

Parameters	Sign	Value	Unit	Certification
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-%	Gypsum data book
Moisture absorption at 20°C, 40% rel. humidity approx.		0.3-0.6	mass-%	Gypsum data bool
Capillary rise of water / immersion time approx. 24 h		1.5-2.0	cm	Gypsum data book
Capillary rise of water / diving time approx. 2 h		0.5	cm	Gypsum data book
Capillary rise of water / dive time approx. $\frac{1}{2}$ h		0	cm	Gypsum data bool
Drying time after 2 h water storage approx.		15	hour(s)	Gypsum data book
(total) water absorption after 2 h storage under water		≤10	mass-%	Gypsum data bool
Water vapour diffusion equivalent air layer thickness (wet)	sd _{wet}	0.10	m	Calculated
Water vapour diffusion equivalent air layer thickness (dry)	sd _{dry}	0.25	m	Calculated
	μ_{wet}	4		EN ISO 10456
Water vapour diffusion resistance factor	μ_{dry}	10		EN ISO 10456
Miscellaneous	,			
Air permeability		1.4 · 10 ⁶	$m^3/(m^2\cdot s\cdot Pa)$	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 th	e performance character	istics of the pro	ducts. In addition.

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).



