

Product data sheet

Rigips Glasroc F 25





Product description: Glass reinforced gypsum board acc. to DIN EN 15238-1, type GM-FH2 with reduced water absorption and advanced core cohesion during high tempeartures.

Area of application: For installation of high-quality and economical fire protection constructions e.g: Structural encasements, installation and cable ducts.





















Hydrophobiert

Anwendung

Anwendung

Baustoffklasse

Gewicht

Plattendicke

Stirnkanten-Wetterfeste Lagerung

Technical specifications

Parameters	Sign	Value	Unit	Certification
Material				
Type of material		Gypsum board fle- ece-reinforced		
Typesetting				
Туре		GM-FH2		EN 15283-1
Building material class				
Fire behaviour		A1		EN 13501-1
Edges				
Longitudinal edge		SK		
Transverse edge		SK		
Dimensions				
Thickness	t	25	mm	EN 15283-1
Width	w	1200	mm	EN 15283-1
Length	I	2000	mm	EN 15283-1

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.





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Humidity (total) water absorption after 2 h storage under water $\mu_{wet} \qquad \qquad 4 \qquad \qquad \text{EN ISO 10456}$	Parameters	Sign	Value	Unit	Certification
Width $+0/-3$ mm EN 15283-1 Length $+0/-3$ mm EN 15283-1 Perpendicularity: deviation per meter of width $+0/-3$ mm/EN 15283-1 Perpendicularity: deviation per meter of width $+0/-3$ mm/EN 15283-1 Perpendicularity: deviation per meter of width $+0/-3$ mm/m EN 15283-1 Nominal Weight Surface-related mass $≥ 21.3$ kg/m² EN 15283-1 Bulk density $≥ 850$ kg/m³ EN 15283-1 Bulk density $≥ 850$ kg/m³ EN 15283-1 Characteristic strength values Bending breaking load - in parallel direction of the board $≥ 420$ N EN 15283-1 Bending fracture load - in transverse direction of the board $≥ 1075$ N EN 15283-1 Arc Strength Extract $≥ 16-19$ mm DIN 53484 Arc Strength Extract $≥ 16-19$ mm DIN 53484 Heat Thermal conductivity $≥ ≥ 1075$ N EN 150 10456 Specific heat capacity $≥ ≥ 1075$ N EN 150 10456 Specific heat capacity $≥ ≥ 1075$ N EN 150 10456 Specific heat capacity $≥ ≥ 1075$ N EN 150 10456 Thermal conductivity $≥ ≥ 1075$ N M/(m·K) EN 150 10456 Thermal conductivity $≥ ≥ 1075$ N M/(m·K) EN 150 10456 Thermal conductivity $≥ ≥ 1075$ N M/(m·K) N M/(m·K) Thermal conductivity $≥ ≥ 1075$ N M/(m·K) N M/(m·K) Thermal conductivity $≥ ≥ 1075$ N M/(m·K) N M/(m·K) Thermal conductivity $≥ ≥ 1075$ N M/(m·K) Thermal conductivity $≥ 10$	Tolerances				
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Perpendicularity: deviation per meter of width ≤ 2.5 mm/m EN 15283-1 ≤ 2.5	Width		+0/-3	mm	EN 15283-1
Surface-related mass Surface-related mas	Length		+0/-3	mm	EN 15283-1
Surface-related mass $\geq 2.3.3$ kg/m² EN 15283-1 Bulk density ≥ 2.850 kg/m³ EN 15283-1 Bulk density ≥ 2.850 kg/m³ EN 15283-1 Characteristic strength values Bending breaking load - in parallel direction of the board ≥ 2.850 N EN 15283-1 Bending fracture load - in parallel direction of the board ≥ 2.850 N EN 15283-1 Bending fracture load - in transverse direction of the board ≥ 2.850 N EN 15283-1 Arc Strength Extract I6 - 19 mm DIN 53484 Arc Strength Step L4 DIN 53484 Heat Thermal conductivity λ_{R} 0.3 W/(m·K) EN ISO 10456 Specific heat capacity c_p 1.70 kJ/(kg.K) Thermal conductivity $\lambda_{R,DBlar}$ 0.20 W/(m·K) Thermal conductivity $\lambda_{R,DBlar}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{R,DBlar}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{R,DBlar}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{R,DBlar}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{R,DBlar}$ 0.5-(0.3/100)x(S/A) W/(m·K) Limit load by heat (long-term exposure) Humidity (total) water absorption after 2 h storage under water δ EN ISO 10456	•		≤ 2.5	mm/m	EN 15283-1
Bulk density \geq 850 kg/m³ EN 15283-1 Characteristic strength values Bending breaking load - in parallel direction of the board \geq 420 N EN 15283-1 Bending fracture load - in transverse direction of the board \geq 1075 N EN 15283-1 Arc Strength Extract 16 - 19 mm DIN 53484 Arc Strength Step L4 DIN 53484 Heat Thermal conductivity λ_{R} 0.3 W/(m·K) EN ISO 10456 Specific heat capacity c_{p} 1.70 kJ/(kg.K) Thermal conductivity $\lambda_{R,DBillar}$ 0.20 W/(m·K) Thermal conductivity $\lambda_{R,DBillar}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{R,DBillar}$ 0.20 W/(m·K) Thermal conductivity $\lambda_{R,DBillar}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{R,DBillar}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{R,DBillar}$ 0.25 W/(m·K) Limit load by heat (long-term exposure) Humidity (total) water absorption after 2 h storage under water $\lambda_{R,DBillar}$ 4 EN ISO 10456	Nominal Weight				
Characteristic strength values Bending breaking load - in parallel direction of the board Bending fracture load - in transverse direction of the board Bending fracture load - in transverse direction of the board Arc Strength Extract Arc Strength Extract Arc Strength Step L4 DIN 53484 Heat Thermal conductivity λ_R 0.3 W/(m-K) EN ISO 10456 Specific heat capacity λ_R 0.3 W/(m-K) EN ISO 10456 Formula conductivity $\lambda_{p,Pillar}$ 0.20 W/(m-K) Thermal conductivity $\lambda_{p,Bearn}$ 0.30 W/(m-K) Thermal conductivity $\lambda_{p,Bearn}$ 0.25 W/(m-K) Thermal conductivity $\lambda_{p,Bearn}$ 0.5-(0.3/100)x(S/A) W/(m-K) Limit load by heat (long-term exposure) Humidity (total) water absorption after 2 h storage under water μ_{max} 4 EN ISO 10456	Surface-related mass	2	21.3	kg/m²	EN 15283-1
Bending breaking load - in parallel direction of the board $≥$ 420 N EN 15283-1 Bending fracture load - in transverse direction of the board $≥$ 1075 N EN 15283-1 Arc Strength Extract 166 - 19 mm DIN 53484 Arc Strength Step L4 DIN 53484 Heat Thermal conductivity $λ_R$ 0.3 W/(m-K) EN ISO 10456 Specific heat capacity c_p 1.70 kJ/(kg.K) Thermal conductivity $λ_{p.Pillar}$ 0.20 W/(m-K) Thermal conductivity $λ_{p.Beam}$ 0.30 W/(m-K) Thermal conductivity $λ_{p.Beam}$ 0.30 W/(m-K) Thermal conductivity 100 m ⁻¹ ≤ S/A < 300 m ⁻¹ $λ_{p.Beam}$ 0.25 W/(m-K) Thermal conductivity $λ_{p.Beam}$ 0.5-(0.3/100)x(S/A) W/(m-K) Limit load by heat (long-term exposure) $max. 50$ (at short until 60) °C Gypsum data book Humidity (total) water absorption after 2 h storage under water $μ_{west}$ 4	Bulk density	2	850	kg/m³	EN 15283-1
in parallel direction of the board $\stackrel{>}{\geq}$ 420 N EN 15283-1 Bending fracture load - in transverse direction of the board $\stackrel{>}{\geq}$ 1075 N EN 15283-1 Arc Strength Extract 16 - 19 mm DIN 53484 DIN 53484 Arc Strength Step L4 DIN 53484 Beat Thermal conductivity λ_R 0.3 W/(m·K) EN ISO 10456 Specific heat capacity c_p 1.70 kJ/(kg.K) Thermal conductivity $\lambda_{p,Pillar}$ 0.20 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.25 W/(m·K) Limit load by heat (long-term exposure) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ Conductivity $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ Conductivity $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) $\lambda_{p,Beam}$ Conductivity $\lambda_{p,Beam}$ Conduc	Characteristic strength values				
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Arc Strength Step	_	≥	1075	N	EN 15283-1
Heat Thermal conductivity λ_R 0.3 W/(m·K) EN ISO 10456 Specific heat capacity c_p 1.70 kJ/(kg.K) Thermal conductivity $\lambda_{p,Pillar}$ 0.20 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.30 W/(m·K) $\lambda_{p,Beam}$ 0.30 W/(m·K) $\lambda_{p,Beam}$ 0.25 W/(m·K) $\lambda_{p,Beam}$ 0.25 W/(m·K) $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K)	Arc Strength Extract		16 - 19	mm	DIN 53484
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Specific heat capacity c_p 1.70 kJ/(kg.K) Thermal conductivity $\lambda_{p,Pillar}$ 0.20 W/(m·K) Thermal conductivity $200 \text{ m}^{-1} \leq \text{S/A} < 300 \text{ m}^{-1}$ $\lambda_{p,Beam}$ 0.30 W/(m·K) Thermal conductivity $100 \text{ m}^{-1} \leq \text{S/A} < 200 \text{ m}^{-1}$ $\lambda_{p,Beam}$ 0.25 W/(m·K) Thermal conductivity $100 \text{ m}^{-1} \leq \text{S/A} < 200 \text{ m}^{-1}$ $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) Limit load by heat (long-term exposure) $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 \text{ m}^{-1}$ $100 \text{ m}^{-1} \leq \text{S/A} < 100 $	Heat				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Thermal conductivity	$\lambda_{_{R}}$	0.3	W/(m·K)	EN ISO 10456
Thermal conductivity $\lambda_{p,Beam}$ 0.30 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.25 W/(m·K) Thermal conductivity $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) Limit load by heat (long-term exposure) $\lambda_{p,Beam}$ max. 50 (at short until 60) °C Gypsum data book Humidity (total) water absorption after 2 h storage under water $\lambda_{p,Beam}$ 4 EN ISO 10456	Specific heat capacity	Cp	1.70	kJ/(kg.K)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Thermal conductivity	$\lambda_{p,Pillar}$	0.20	W/(m·K)	
100 m ⁻¹ \leq S/A < 200 m ⁻¹ Thermal conductivity $40 \text{ m}^{-1} \leq$ S/A < 100 m ⁻¹ $\lambda_{p,Beam}$ 0.5-(0.3/100)x(S/A) W/(m·K) Limit load by heat (long-term exposure) $max. 50$ (at short until 60) C Gypsum data book Humidity (total) water absorption after 2 h storage under water μ_{wet} 4 EN ISO 10456	•	$\lambda_{p,Beam}$	0.30	W/(m·K)	
40 m ⁻¹ \leq S/A < 100 m ⁻¹ Limit load by heat (long-term exposure) Humidity (total) water absorption after 2 h storage under water μ_{wet}		$\lambda_{p,Beam}$	0.25	W/(m·K)	
(long-term exposure) (at short until 60) Gypsum data book Humidity (total) water absorption after 2 h storage under water		$\lambda_{p,Beam}$	0.5-(0.3/100)x(S/A)	W/(m·K)	
(total) water absorption after 2 h storage under water $ = \frac{10}{\mu_{wet}} = \frac{10}{\mu_{wet}}$				°C	Gypsum data book
under water \leq 10 mass-% Gypsum data book μ_{wet} 4 EN ISO 10456	Humidity				
	•		≤ 10	mass-%	Gypsum data book
water vapour diffusion resistance factor	Water vapour diffusion resistance factor	μ_{wet}	4		EN ISO 10456
μ_{dry} 10 EN ISO 10456		μ_{dry}	10		EN ISO 10456

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Parameters	Sign	Value	Unit	Certification
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).

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