

Product data sheet – Glasroc F 15/20/25



- various and economical use in different applications



- high performance for maximum protection and safety
- resistant to moisture - H2 classified



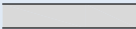
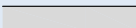
- easy to install and able to be fixed through the edge



- best reaction to fire - non combustible (building material class A1)

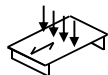

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|------------------------|---|
| Characteristics | Glasroc F 15/20/25 is a high performance, class A1, non-combustible glass reinforced gypsum board, type GM-FH2 with reduced water absorption. Glasroc F (Ridurit) conforms to EN 15283-1. |
| Application | Glasroc F 15/20/25 is used in various high performance fire protective applications. e.g.: frameless incasements of structural steelwork, specialist lining systems, ceilings, walls and cable ducts. |
| Installation | Glasroc F 15/20/25 allows quick and easy installation and can be fixed together through the board edges with staples and screws |

Technical data

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|---------------------|--|---|-------------------------------------|------------|
| Type | Gypsum board with fibrous reinforcement, type GM-FH2 | | as per DIN EN 15283-1 | |
| | nicht brennbar Europäische Klasse: A1 | | as per DIN EN 13501-1 | |
| Edge profile | Longitudinal edges |  | SK | |
| | Transverse edges |  | SK | |
| Dimensions | Nominal thickness | 15/20/25 | [mm] | |
| | Width x Lengths | For possible dimensions please consult our delivery programme. Special lengths (intermediate sizes, overlength) and sheet cutting possible - delivery time on request. | | |
| | Dimensional tolerances | Thickness | 15 20 25 | [mm] |
| | | | +0.7/-0.5 +0.8/-0.5 +0.9/-0.5 | [mm] |
| | | (in these tolerances the difference of the "thickest" and the "thinnest" point of the board has to be smaller than 1,0 mm) | | |
| | | Width | | +0/-3 [mm] |
| | Length | | +0/-3 [mm] | |
| | Squareness: deviation per m width | | ≤ 2.5 [mm/m] | |
| | | | as per DIN 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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|--|---|---|---|--------------------------|--------------------------|--------------------------|
| Plasterboard marking | On rear side | | | | | |
| Plasterboard marking | The marking in longitudinal direction in black contains: - Glasroc F - EN 15283-1 GM-F A1 - Thickness in mm - Production date and/or shift number | | | | | |
| Weight | Weight per unit area | 15 | [mm] | 12.75 | [kg/m ²] | as per DIN EN 15283-1 |
| | | 20 | [mm] | 17.00 | [kg/m ²] | |
| | | 25 | [mm] | 21.25 | [kg/m ²] | |
| Weight | Apperent density | 850 +50/-40 (20°C, 65 % air humidity) | | [kg/m ³] | as per DIN EN 15283-1 | |
| Strengths | Breaking load | ⊥ perpendicular to direction of manufacture in longitudinal direction of the board |  | as per DIN EN 15283-1 | | |
| | | | | 15 | ≥645 | ⊥ [N] |
| | 20 | ≥860 | ⊥ [N] | | | |
| | 25 | ≥1075 | ⊥ [N] | | | |
| | parallel to direction of manufacture in transverse direction of the board |  | as per DIN EN 15283-1 | | | |
| | | | 15 | ≥252 | [N] | |
| | | | 20 | ≥336 | [N] | |
| 25 | ≥420 | [N] | | | | |
| Strengths | arc resistance | arc pull-off: degree: | 16-19 L4 | [mm] | as per DIN 53484 | |
| Heat | Thermal conductivity λ _R | 0.25 | | [W/(m·K)] | | |
| | specific heat c _p | 1700 | | [J/kg·K] | | |
| | Thermal conductivity λ _P for columns | 0.20 | | [W/m·K] | | |
| | Thermal conductivity λ _P for beams | 40 m ⁻¹ ≤ U/A < 100 m ⁻¹ | 0.5 - $\frac{0.3}{100} \times \frac{U}{A}$ | | [W/mK] | |
| | | 100 m ⁻¹ ≤ U/A < 200 m ⁻¹ | 0.25 | | [W/mK] | |
| 200 m ⁻¹ ≤ U/A < 300 m ⁻¹ | | 0.30 | | [W/mK] | | |
| U=perimeter exposed to fire, A= cross section area of the steel element | | | | | | |

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|----------|---|----------------------|------------|---------------------|
| Humidity | Vapour diffusion resistance factor μ | trocken 10 nass 4 | [-] [-] | as per DIN EN 12524 |
| | Water absorption for 2 h fully immersed in water | ≤ 10 | [%] | |
| Sign | The values given in this product data sheet solely describe the performance characteristics of the products. Rigips-Systems also have far-reaching structural-physical and static properties, which can be found in our system documentation (e.g. Planen und Bauen). | | | |

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