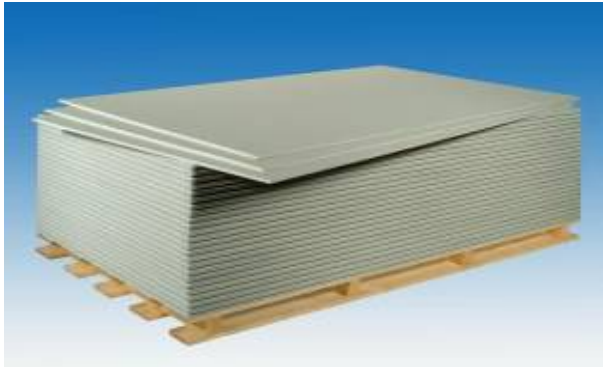


Rigidur H 15



- smooth, hard and extremely robust: Ideal for all decorative topcoats
- suitable for residential damp room conditions



- made from natural ingredients
- Certified system solutions with Rigidur H: Durable and sustainable




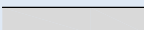
- Suitable for loadbearing timber frame construction
- Particularly suitable for load attachment to walls



- With a maximum in sound insulation and fire resistance performance

| | |
|------------------------|---|
| Characteristics | The Gypsum Fibreboard Rigidur H 15 contains gypsum, paper fibres and mineral additives. |
| Application | An ideal material for rigid drywall construction with excellent properties in sound absorption and fire resistance. |
| Installation | According to Rigidur installation guide |

Technical data

| | | | | | | |
|--------------------------------------|---|---|--------|------|-----------------------|--|
| Type | GF-C1-I-W2 | | | | as per DIN EN 15283-2 | |
| | non-combustible European Classification: A2-s1, d0 | | | | as per DIN EN 13501-1 | |
| Edges | Longitudinal edges |  | SK | | | |
| | Transverse edges |  | SK | | | |
| Dimensions | Board thickness | 15 | [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 | ±0.2 | [mm] | | |
| | | Width | +0/-2 | [mm] | | |
| Length | | +0/-2 | [mm] | | | |
| Squareness: deviation per m width | | ≤ 2.0 | [mm/m] | | as per DIN EN 15283-2 | |

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Rigidur H 15

| Rigidur H 15 | | | | |
|--|---|---|---|--------------------------|
| Plasterboard marking | On rear side | The marking in longitudinal direction in black contains: | | |
| | | <ul style="list-style-type: none"> - Rigidur H 15 - CE-marking - EN 15283-2 GF-C1-I-W2 - non-combustible A2-s1, d0 - ETA 08/0147 // KOMO K23110 // Ü-VHT Z-9.1-571 - Production date and/or shift number | | |
| Weight | Weight per unit area | ca. 18 | [kg/m ²] | as per DIN EN 15283-2 |
| | Apperent density | ca. 1200 | [kg/m ³] | as per DIN EN 15283-2 |
| Strengths | Flexural strength | 6.25 | [N/mm ²] | as per DIN EN 15283-2 |
| | Modulus of elasticity | 3600 | [N/mm ²] | as per DIN EN 15283-2 |
| | Surface hardness as per Brinell | 35 | [N/mm ²] | as per DIN EN ISO 6506-1 |
| Characteristic strength parameters [N/mm ²] for rating according Z-9.1-571 | Bending f _{m,k} | 5.0 4.3 | ⊥ [MN/m ²] [MN/m ²] | |
| | Tension f _{t,k} | 2.0 | [MN/m ²] | |
| | Compression f _{c,k} | 7.2 | [MN/m ²] | |
| | Shear f _{v,k} | 2.3 1.2 | ⊥ [MN/m ²] [MN/m ²] | |
| | Bending modulus of elasticity E _{m,mean} | 4500 3500 | ⊥ [MN/m ²] [MN/m ²] | |
| | Tension modulus of elasticity E _{t,mean} | 2500 | [MN/m ²] | |
| | Compression modulus of elasticity E _{c,mean} | 3500 | [MN/m ²] | |
| | Shear modulus of elasticity G _{mean} | 1300 | ⊥ [MN/m ²] | |
| | Characteristic embedding strength f _{h,k} | f _{h,k} = 127 × d ^{-0.7} | [N/mm ²] | |
| | | <p>d = diameter of the connector</p> <p>The characteristic load bearing value of connectors shall be determined by using the following formula (Board thickness t ≥ 7d):</p> $R_k = 0.7 \times \sqrt{2 \times M_{y,k} \times f_{h,1,k} \times d} \quad [N]$ <p>With M_{y,k} = characteristic value of yield moment from connector [Nmm]</p> | | |

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Rigidur H 15

| | Class of load duration | Service Class 1 | Service Class 2 | according to Z-9.1-571 | |
|---|---|---|--------------------------------------|--------------------------------------|-------------------------|
| calculation value | modification factor K_{mod} | permanent long average Shortterm Very short | 0.20 0.40 0.60 0.80 1.10 | 0.15 0.30 0.45 0.60 0.80 | |
| | Deformation value k_{def} | permanent long average Shortterm | 3.0 2.0 1.0 0.35 | 4.0 2.5 1.25 0.5 | |
| | partial safety factor γ_m | 1.3 | | | |
| | Heat | Thermal conductivity λ_R $\lambda_{10,dry}$ | 0.350 0.202 | [W/(m x K)] | as per DIN EN 12667 |
| | | Thermal dilatation | 0.015 | [mm/(m x K)] | referring to DIN EN 318 |
| Thermal threshold stress (long-term load) | | max. 50 | [°C] | short-term load 60°C | |
| Humidity | Water vapour permeability μ | 19 | [-] | as per DIN EN 12524 | |
| | Water vapour diffusion-equivalent air layer thickness s_d | 0.29 | [m] | as per DIN EN ISO 12527 | |
| | Surface water absorption | ≤ 1500 | [g/m ²] | after 30 minutes | as per DIN EN 15283-2 |
| | Thickness dilatation after 24h immersion in water | ≤ 2 | [%] | | referring to DIN EN 317 |
| | Dilatation due to changing of relative humidity by 30% (20°C) | 0.045 | [%] | | as per DIN EN 318 |
| | Stable moisture content at 20°C, 65% relative humidity | 1-1.3 | [%] | | as per DIN EN 322 |
| 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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