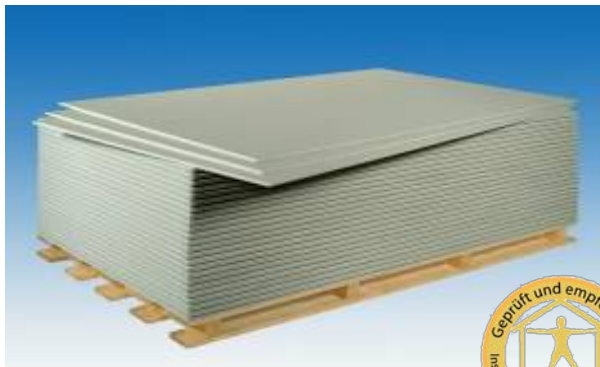


## Rigips Feuerschutzplatte RF 18



- flexible and space saving
- individual room layout



- extended durability
- excellent ecobalance



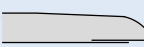
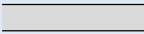
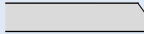
- agreeable inside air humidity
- recommended by the IBR Rosenheim



- cost-effective due to short construction time
- no long drying times

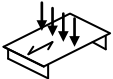
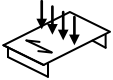
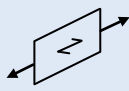
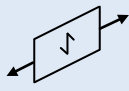
|                        |  |
|------------------------|--|
| <b>Characteristics</b> | Rigips Feuerschutzplatten RF 18 (fire protection boards) are made of a special, reinforced gypsum core encased in cardboard. Therefore, they are especially suited for use in fire protection constructions. |
| <b>Application</b>     | Rigips Feuerschutzplatten RF 18 (fire protection boards) are an ideal solution to build up drywalls, installation walls, suspended ceilings, sloping ceilings and many other applications.                   |
| <b>Installation</b>    | According to the Rigips application guidance   |

### Technical data

|                                      |   |  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|--------------------------------------|---|--|-------------------|------|------|-------------------|-------|-------|------|--------|-------|------|--------------------------------------|-------|
| <b>Type</b>                          | Gypsum plasterboard type DFR                              | as per DIN EN 520  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|                                      | Gypsum plasterboard GKF                                   | as per DIN 18180   |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|                                      | non-combustible<br>European Classification: A2-s1, d0 (B) | as per DIN EN 520  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
| <b>Edge profile</b>                  | Longitudinal edges  |  Vario<br>Designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.   |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|                                      | Transverse edges  |  SK  SKF  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
| <b>Dimensions</b>                    | Nominal thickness   | 15 [mm]  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|                                      | Width x Lengths   | For possible dimensions please consult our delivery programme.<br>Special lengths (intermediate sizes, overlength) and sheet cutting possible - delivery time on request.  |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
|                                      | Dimensional tolerances                                    | <table border="0"> <tr> <td>Thickness</td> <td>±0.7</td> <td>[mm]</td> <td rowspan="4">as per DIN EN 520</td> </tr> <tr> <td>Width</td> <td>+0/-4</td> <td>[mm]</td> </tr> <tr> <td>Length</td> <td>+0/-5</td> <td>[mm]</td> </tr> <tr> <td>Squareness:<br/>deviation per m width</td> <td>≤ 2.5</td> <td>[mm/m]</td> </tr> </table> | Thickness         | ±0.7 | [mm] | as per DIN EN 520 | Width | +0/-4 | [mm] | Length | +0/-5 | [mm] | Squareness:<br>deviation per m width | ≤ 2.5 |
| Thickness                            | ±0.7  | [mm]   | as per DIN EN 520 |      |      |                   |       |       |      |        |       |      |                                      |       |
| Width                                | +0/-4   | [mm]   |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
| Length                               | +0/-5   | [mm]   |                   |      |      |                   |       |       |      |        |       |      |                                      |       |
| Squareness:<br>deviation per m width | ≤ 2.5   | [mm/m]   |                   |      |      |                   |       |       |      |        |       |      |                                      |       |

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 Feuerschutzplatte RF 18

| Rigips Feuerschutzplatte RF 18               |   |   |   |   |                                       |
|--|---|---|---|---|---------------------------------------|
| Plasterboard marking                         | On rear side  | The marking in longitudinal direction in red contains: <ul style="list-style-type: none"> <li>- RIGIPS Feuerschutzplatte RF</li> <li>- CE-symbol</li> <li>- DIN EN 520: type DFR</li> <li>- DIN 18180: GKF</li> <li>- A2-s1, d0 (B)</li> <li>- Production date and/or shift number</li> </ul> Generally, together with the lettering, a row of dots mark the board centre within a strip of ca. 5 cm width (position of the metal stud sections for walls). |   |   |                                       |
|  | On front side   | To ease installation, the board centre is marked with the letters RF which are 3-5mm high and located at a distance of about 250 mm (screw spacing) from each other. The position tolerance of the marking from the board centre is $\pm 2$ cm max.   |   |   |                                       |
|  | Edge marking  | „RIGIPS VARIO 18“ at the longitudinal edge in red   |   |   |                                       |
| Weight                                       | Weight per unit area  | $\geq 14.4$   | [kg/m <sup>2</sup> ]                      | as per DIN 18180  |                                       |
|  | Apperent density  | $\geq 800$  | [kg/m <sup>3</sup> ]                      | as per DIN EN 520   |                                       |
| Strengths                                    | Breaking load   | $\perp$ perpendicular to direction of manufacture in longitudinal direction of the board  |   |   | as per DIN EN 520<br>as per DIN 18180 |
|  |   | $\geq 1044$   | $\perp$ [N]                               |   |                                       |
|  | $\geq 432$  | $\parallel$ [N]   |   |   |                                       |
|  | $\parallel$ parallel to direction of manufacture in transverse direction of the board |   |   |  | as per DIN EN 520<br>as per DIN 18180 |
|  | Improved core cohesion at high temperature  | passed  |   |   | as per DIN EN 520                     |
|  | Bending tensile strength  | $\geq 5.6$  | $\perp$ [N/mm <sup>2</sup> ]              |   |                                       |
|  | $\geq 2.3$  | $\parallel$ [N/mm <sup>2</sup> ]  |   |   |                                       |
| Modulus of elasticity                        | $\geq 2800$   | $\perp$ [N/mm <sup>2</sup> ]  |   | as per DIN 18180  |                                       |
|  | $\geq 2200$   | $\parallel$ [N/mm <sup>2</sup> ]  |   | as per DIN 18180  |                                       |
| Compressive strength vertical to the surface | 5-10  | [N/mm <sup>2</sup> ]  |   |   |                                       |
| Tensile strength                             | 1.8-2.5   | [N/mm <sup>2</sup> ]  |   |  |                                       |
|  | in longitudinal direction of the board  |   |   |   |                                       |
|  | 1.0-1.2   | [N/mm <sup>2</sup> ]  |   |  |                                       |
|  | in transverse direction of the board  |   |   |   |                                       |
| Shear strength                               | 930   | [N]   | connection between board and substructure | as per DIN EN 520   |                                       |
| Shear strength                               | 3.0-4.5   | [N/mm <sup>2</sup> ]  | vertical to surface                       |   |                                       |
|  | 2.5-4.0   | [N/mm <sup>2</sup> ]  | parallel to surface                       |   |                                       |

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## Rigips Feuerschutzplatte RF 18

|          |   |                      |              |                      |
|----------|---|----------------------|--------------|----------------------|
| Heat     | Thermal conductivity $\lambda_R$  | 0.25                 | [W/(m x K)]  | as per DIN EN 520    |
|          | Thermal expansion coefficient at 60% RH   | 0.013-0.020          | [mm/(m x K)] |                      |
|          | Thermal threshold stress (long-term load)   | max. 50              | [°C]         | short-term load 60°C |
| Humidity | Vapour diffusion resistance factor $\mu$  | dry 10<br>wet 4      | [-]<br>[-]   | as per DIN EN 520    |
|          | Diffusion equivalent air layer thickness $s_d$  | dry 0.18<br>wet 0.07 | [m]<br>[m]   | as per DIN 4108      |
|          | Dilatation due to changing of relative humidity by 30% (20°C)   | 0.015                | [%]          |                      |
| 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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