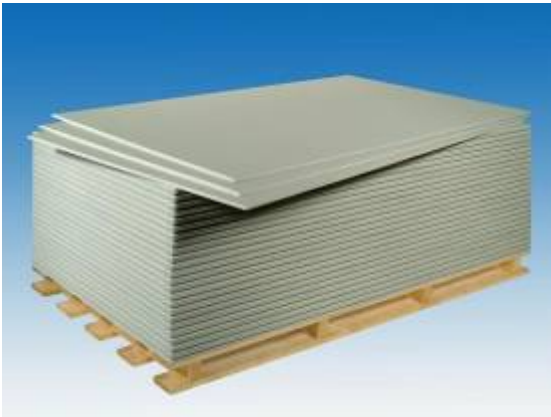


Die Blaue 12,5

Original Rigips plasterboards have been on the market in Austria for more than 60 years now.

Rigips Die Blaue 12.5 consists of a special gypsum core encased in cardboard which is especially suited for sound insulation, and can also be used as fire protection board.



The Institut für Baubiologie in Austria (Institute for Building Biology - IBO) has classified Rigips boards as "tested and recommended building material by the IBO". This quality is re-assessed by the IBO every six months.




Rigips wallboards and thus Rigips Die Blaue are used successfully in domestic buildings, offices, commercial buildings, hotels, schools and many other segments for applications such as the following:

- interior walls
- wall linings
- sloping ceilings / roofs

Rigips wallboards are to be processed as per the Rigips installation guidance and as per ÖN B 3415.

Technical Data

| | | |
|-----------------------|-------------------------------------|--|
| Proof | as per ÖN EN520 and ÖN B 3410 | Gypsum plasterboard type DF Gypsum plasterboard GKF |
| Classification | as per ÖN EN13501-1 | A2-s1,d0 (B), non-combustible as per Building Regulations List A Part 1, Annex 0.2.2 (2004/1) |

| | | | |
|---------------------|---------------------------|---|---|
| Edge profile | Longitudinal edges | designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips. |  Vario |
| | Transverse edges | |  SK  SKF |

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Die Blaue 12,5

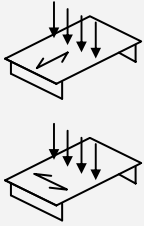
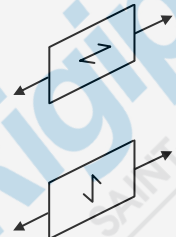
| | | |
|----------------------|---------------|---|
| Plasterboard marking | On rear side | <p>The marking in longitudinal direction in red contains:</p> <ul style="list-style-type: none"> • RIGIPS FEUSCHUTZPLATTE RF !!! DIE BLAUE !!! • CE symbol • ÖN EN520: type DF • ÖN B 3410: GKF • A2-s1, d0 (B) • Production date and/or shift number <p>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).</p> |
| | On front side | <p>To ease installation, the board centre is marked with the letters RF which are 3-5 mm high and located at a distance of about 250mm (screw spacing) from each other. The position tolerance of the marking from the board centre is ± 2cm max.</p> |
| | Edge marking | <p>"RIGIPS VARIO 12.5 !!! DIE BLAUE !!!" at the longitudinal edge</p> |

| | | | | |
|------------|------------------------|--------------------|--|------|
| Dimensions | Nominal thickness | | 12.5 | [mm] |
| | Width | | 1250 | [mm] |
| | Lengths | | 2000 - 2750 | [mm] |
| | | | Special lengths (intermediate sizes, overlength) and sheet cutting possible – delivery time on request . | |
| | Dimensional tolerances | as per ÖN EN520 | Thickness ± 0.5 Width $+0/-4$ Length $+0/-5$ Squareness deviation ≤ 2.5 per m width | [mm] |

| | | | | |
|--------|-------------------------|---------------------|----------------|----------------------|
| Weight | Apperent density | | ca. ≥ 800 | [kg/m ³] |
| | Weight per unit area m' | as per ÖN B 3410 | ca. ≥ 10 | [kg/m ²] |

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Die Blaue 12,5

| | | | | |
|---|---|---|--|----------------------|
| Strengths | Breaking load | as per ÖN EN520 and ÖN B 3410 | ⊥ ≥ 610 ≥ 210 | [N] |
| | |  | ⊥ perpendicular to direction of manufacture (in longitudinal direction of the board) parallel to direction of manufacture (in transverse direction of the board) | |
| | Improved core cohesion at high temperature | as per ÖN EN520 | passed | |
| | Bending tensile strength | | ⊥ ≥ 6.8 ≥ 2.4 | [N/mm ²] |
| | Modulus of elasticity | as per ÖN B 3410 | ⊥ ≥ 2800 ≥ 2200 | [N/mm ²] |
| | Surface hardness | as per Brinell | ca. 10 - 18 | [N/mm ²] |
| | Compressive strength vertical to the surface | | ca. 5 - 10 | [N/mm ²] |
| | Tensile strength |  | In longitudinal direction of the board: ca. 1.8 - 2.5 In transverse direction of the board: ca. 1.0 - 1.2 | [N/mm ²] |
| | Shear strength of the connection between board and substructure | as per ÖN EN520 | 560 | [N] |
| | Shear strength | | Vertical to surface: ca. 3.0 - 4.5 Parallel to surface: ca. 2.5 - 4.0 | [N/mm ²] |
| Adhesive strength of jointing compound & gypsum glue | as per ÖN EN13963 | > 0.25 | [N/mm ²] | |

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Die Blaue 12,5

| | | | | |
|------|--------------------------------|----------------------|-------------------|-----------------|
| Heat | Thermal conductivity λ | as per ÖN EN12524 | 0.25 | [W/ (m·K)] |
| | Specific heat capacity c | at 20°C | 0.96 | [kJ/ (kg·K)] |
| | Thermal expansion coefficient | at 60% RH | ca. 0.013 - 0.020 | [mm/ (m·K)] |

| | | | | |
|----------|--|----------------------|---|----------|
| Humidity | Vapour diffusion resistance factor μ | as per ÖN EN12524 | dry: 10 wet: 4 | [—] |
| | Diffusion equivalent air layer thickness s_d | as per ÖN B 8110 | dry: 0.13 wet: 0.05 | [m] |
| | Water absorption for 2 h fully immersed in water | | 30 - 50 | [Masse%] |
| | Drying time after 2 h fully immersed in water | | ca. 70 | [h] |
| | Capillary rise of water (front edge immersed) | | after ½ h: 3 - 4 after 2 h: 7 - 8 after 24 h: 20 - 22 | [cm] |
| | Moisture absorption / equilibrium moisture content (depending on room climate) | at 20°C | 40% RH: 0.3 - 0.6 60% RH: 0.6 - 1.0 80% RH: 1.0 - 2.0 | [Masse%] |
| | Change in length for a 30% change in RH | at 20°C | 0.015 | [%] |

| | | | | |
|-------|--|---------------------|--|--|
| Other | Crystalline bonded water inside gypsum core | | ca. 16 - 20 | [%] |
| | Thermal threshold stress (long-term load) | | max. 50 | [°C] |
| | El. surface resistance at 100 V, 20°C and 65% RH | as per DIN 53486 | front side: $3.5 \cdot 10^8 - 5 \cdot 10^8$ rear side: $6.5 \cdot 10^8 - 10 \cdot 10^8$ | [Ω] |
| | El. volume resistance at 100 V, 20°C and 65% RH | as per DIN 53486 | $2 \cdot 10^9$ | [Ω] |
| | pH value | | 6 - 9 | [—] |
| | Air permeability | as per ÖN EN520 | $1.4 \cdot 10^{-6}$ | [m ³ / (m ² ·s·Pa)] |

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