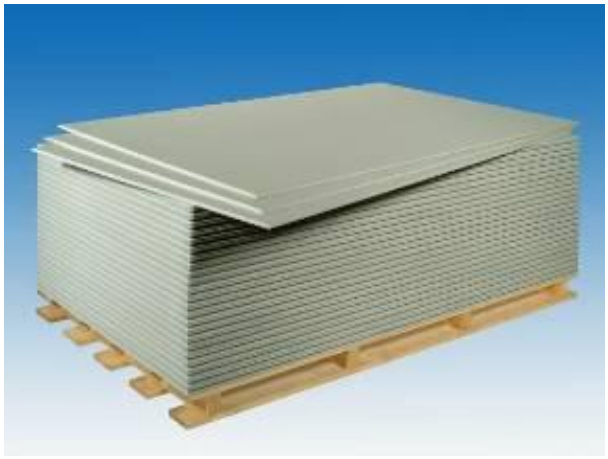
Rigips Feuerschutzplatte RF 15

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

Rigips RF fire protection boards consist of a special, reinforced gypsum core encased in cardboard. Therefore, Rigips RF fire protection boards are especially suited for use in fire protection constructions.



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.

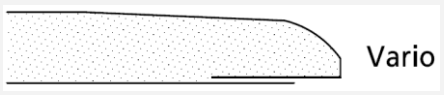
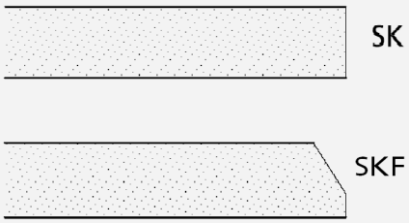
Rigips wallboards are used successfully in domestic buildings, offices, commercial buildings, hotels, schools and many other segments for applications such as the following:

- interior walls
- wall linings
- dry plaster
- suspended ceilings
- 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 EN 520 and ÖN B 3410**	**Gypsum plasterboard type DF Gypsum plasterboard GKF**
Classification	**as per ÖN EN 13501-1**	**A2-s1,d0 (B)**

Edge profile	**Longitudinal edges**	**designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.**	
	Transverse edges		

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Plasterboard marking	On rear side	The marking in longitudinal direction in red contains: • RIGIPS FEUSCHUTZPLATTE RF • CE symbol • ÖN EN 520: type DF • ÖN B 3410: GKF • A2-s1, d0 (B) • Production date and/or shift number 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 3-5 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.
	Edge marking	"RIGIPS VARIO 15" at the longitudinal edge in red

Dimensions	Nominal thickness		15	[mm]
	Width		1250	[mm]
	Lengths		2000 2500 Special lengths (intermediate sizes, overlength) and sheet cutting possible – delivery time on request .	[mm]
	Dimensional tolerances	as per ÖN EN 520	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. ≥ 12	[kg/m²]

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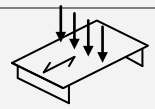
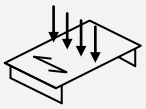
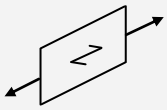
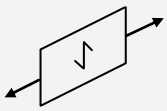
Strengths	**Breaking load**	**as per ÖN EN 520 and ÖN B 3410**	⊥ ≥ 735 ‖ ≥ 250	**[N]**
			⊥ perpendicular to direction of manufacture (in longitudinal direction of the board)	
			‖ parallel to direction of manufacture (in transverse direction of the board)	
	Improved core cohesion at high temperature	**as per ÖN EN 520**	**passed**	
	Bending tensile strength		⊥ ≥ 5.7 ‖ ≥ 1.9	**[N/mm²]**
	Modulus of elasticity	**as per ÖN B 3410**	⊥ ≥ 2800 ‖ ≥ 2200	**[N/mm²]**
	Surface hardness	**as per Brinell**	**ca. 10 - 18**	**[N/mm²]**
	Compressive strength vertical to the surface		**ca. 5 - 10**	**[N/mm²]**
	Tensile strength		**In longitudinal direction of the board: ca. 1.8 - 2.5**	**[N/mm²]**
			**In transverse direction of the board: ca. 1.0 - 1.2**	
	Shear strength of the connection between board and substructure	**as per ÖN EN 520**	**810**	**[N]**
	Shear strength		**Vertical to surface: ca. 3.0 - 4.5** **Parallel to surface: ca. 2.5 - 4.0**	**[N/mm²]**
	Adhesive strength of jointing compound & gypsum glue	**as per ÖN EN 13963**	**> 0.25**	**[N/mm²]**

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Heat	Thermal conductivity λ	as per ÖN EN 12524	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 EN 12524	dry: 10 wet: 4	[—]
	Diffusion equivalent air layer thickness s_d	as per ÖN B 8110	dry: 0.15 wet: 0.06	[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 / equillBOium 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 permeabillity	as per ÖN EN 520	$1.4 \cdot 10^{-6}$	[m^3/ (m^2·s·Pa)]