

Rigips Die Blaue RFI 12,5



- sound protection values up to 76 dB
- improvement of sound protection – up to 3 dB higher values than usual market levels



- structural fire protection up to F 180-A
- easy to identify because of the blue cardboard
- for using in areas with a low to moderate moisture load



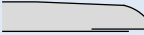
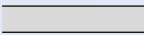
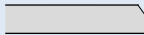
- agreeable inside air humidity
- recommended by the IBR Rosenheim



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



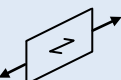
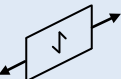
Characteristics	Rigips Die Blaue RFI (fire protection boards) are made of a special, reinforced gypsum core encased in cardboard. Rigips Die Blaue RF is especially recommended for using in sound protection constructions with structural fire protection requirements in areas with a low to moderate moisture load.
Application	Rigips Die Blaue RFI (fire protection boards) are an ideal solution to build up drywalls, installation walls, suspended ceilings, sloping ceilings and many other applications.
Installation	According to the Rigips application guidance

Technical data

Type	Gypsum plasterboard type DFH2				as per DIN EN 520
	Gypsum plasterboard GKFI				as per DIN 18180
Edge profile	Longitudinal edges		Vario		
		Designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.			
Dimensions	Transverse edges		SK		SKF
	Nominal thickness	12.5	[mm]		
Dimensions	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	±0.5	[mm]	
		Width	+0/-4	[mm]	
		Length	+0/-5	[mm]	
Squareness: deviation per m width		≤ 2.5	[mm/m]	as per DIN EN 520	

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	The marking in longitudinal direction in red contains: - RIGIPS Feuerschutzplatte RFI !!! DIE BLAUE !!! - CE-symbol - DIN EN 520: type DFH2 - DIN 18180: GKFI - A2-s1, d0 (B) - Production date and/or shift number			
	On front side	To ease installation, the board centre is marked with the letters BFI 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 ± 2 cm max.			
	Edge marking	„RIGIPS VARIO 12,5 !!! DIE BLAUE RFI !!!“ at the longitudinal edge in red			
Weight	Weight per unit area	≥ 10	[kg/m ²]	as per DIN 18180	
	Apperent density	≥ 800	[kg/m ³]	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 as per DIN 18180
		≥ 610 ≥ 210	\perp [N] \parallel [N]		as per DIN EN 520 as per DIN 18180
	Improved core cohesion at high temperature	passed			as per DIN EN 520
	Bending tensile strength	≥ 6.8 ≥ 2.4	\perp [N/mm ²] \parallel [N/mm ²]		
		Modulus of elasticity	≥ 2800 ≥ 2200	\perp [N/mm ²] \parallel [N/mm ²]	
	Compressive strength vertical to the surface		5-10	[N/mm ²]	
Tensile strength	1.8-2.5 in longitudinal direction of the board	[N/mm ²]			
	1.0-1.2 in transverse direction of the board	[N/mm ²]			
Shear strength	NPD	[N]	connection between board and substructure	as per DIN EN 520	
Shear strength	3.0-4.5	[N/mm ²]	vertical to surface		
	2.5-4.0	[N/mm ²]	parallel to surface		

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Heat	Thermal conductivity λ_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 μ	dry	10	[-]	as per DIN EN 520
		wet	4	[-]	
	Diffusion equivalent air layer thickness s_d	dry	0.13	[m]	as per DIN 4108
		wet	0.05	[m]	
	Dilatation due to changing of relative humidity by 30% (20°C)	0.015		[%]	
	Water absorption for 2 h fully immersed in water	≤ 10		[Masse-%]	as per DIN EN 520 as per DIN 18180
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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