## Rigidur H 12,5





- 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 12,5 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							
Ø	GF-C1-I-W2				as per DIN EN 15283-2		
Type	non-combustible European Classification: A2	-s1, d0				as per DIN El	N 13501-1
es	Longitudinal edges		SK			AK	
Edges	Transverse edges		SK				
	Board thickness	12.5	[mm]				
	Width x Lengths	For possible dimensions please consult our delivery programme.					
sions		Special lengths (intermediate sizes, overlength) and sheet cutting possible - delivery time on request.					
Dimensions	Dimensional tolerances	Thickness Width Length		±0.2 +0/-2 +0/-2	[mm] [mm] [mm]	as per DIN Ei	N 15283-2
		Squareness: deviation per m width		≤ 2.0	[mm/m]		

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Plasterboard marking	On rear side	The marking in longitudinal direction in black contains: - Rigidur H 12,5 - 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				
jht	Weight per unit area	ca. 15	[kg/m²]		as per DIN EN 15283-2	
Weight	Apperent densitiy	ca. 1200	[kg/m <sup>3</sup> ]		as per DIN EN 15283-2	
S	Flexural strength	6.9	[N/mm <sup>2</sup> ]		as per DIN EN 15283-2	
Strengths	Modulus of elasticity	4050	[N/mm <sup>2</sup> ]		as per DIN EN 15283-2	
Stre	Surface hardness as per Brinell	35	[N/mm²]		as per DIN EN ISO 6506-1	
1-571	Bending f <sub>m,k</sub>	5.5 4.5	$\perp$ [MN/m²] $\parallel$ [MN/m²]			
Z-9.	Tension f <sub>t,k</sub>	2.2	[MN/m²]			
ding	Compression f <sub>c,k</sub>	9.0	[MN/m²]			
accord	Shear f <sub>v,k</sub>	2.3 1.2	$\perp$ [MN/m <sup>2</sup> ]    [MN/m <sup>2</sup> ]			
ers [N/mm2] for rating according Z-9.1-571	Bending modulus of elasticity $E_{m,mean}$	4500 3500	$\perp$ [MN/m <sup>2</sup> ]    [MN/m <sup>2</sup> ]			
[2] for	Tension modulus of elasticity $E_{t,mean}$	4500	[MN/m²]			
[N/mm	Compression modulus of elasticity $E_{c,mean}$	4500	[MN/m²]			
	Shear modulus of elasticity G <sub>mean</sub>	1300	$\perp$ [MN/m²]			
aram	Characteristic embedding	$f_{h,k}$ = 127 x $d^{-0,7}$	[N/mm <sup>2</sup> ]			
Characteristic strength paramet	strength f <sub>h,k</sub>	d = diameter of the connector  The characteristic load bearing value of connectors shall be determined by using the following formula (Board thickness t ≥ 7d): $R_k = 0.7 \times \sqrt{2 \times M_{y,k} \times f_{h,1,k} \times d}$ [N]				
Characterist		With My,k = characteristic value of yield moment from connector [Nmm]				

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			Class of load duration	Service Class 1	Service Class 2	according to Z-9.1-571
onley acitelioles	calculation value	modification factor $K_{\text{mod}}$	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	
	calcul	Deformation value k <sub>def</sub>	permanent long average Shortterm	3.0 2.0 1.0 0.35	4.0 2.5 1.25 0.5	
		partial safety factor $\gamma_{\text{m}}$	1.3			
Heat		Thermal conductivity $\lambda_R$ $\lambda_{10,dry}$	0.350 0.202	[W/(m x K)]		as per DIN EN 12667
	Heat	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 <sub>d</sub>	0.24	[m]		as per DIN EN ISO 12527
	₹	Surface water absorption	≤ 1500	[g/m²]	after 30 minutes	as per DIN EN 15283-2
	lumidi	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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