

Product data sheet

Rigidur H Marine 12,5 - large format board



Product description: Homogeneous gypsum fibreboard with square edges (SK). Pre-primed, smooth and extremely hard surface. Fire rating class A1. U.S. Coast Guard and notified body approval 164.109/EC0736/107.088/EC0045.

Area of application: Suitable for marine ship interior application.



Technical specifications

Parameters	Sign	Value	Unit	Certification
Material				
Type of material		gypsum fibre		
Typesetting				
Type		GF-C1-I-W2		EN 15283-2
		U.S. Coast Guard		
Building material class				
Fire behaviour		A1		EN 13501-1
Edges				
Longitudinal edge		SK		
Transverse edge		SK		
Dimensions				
Thickness	t	12.5	mm	EN 15283-2
Width	w	1200	mm	EN 15283-2
Length	l	2000	mm	EN 15283-2

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Parameters	Sign	Value	Unit	Certification
Tolerances				
Thickness		±0.2	mm	EN 15283-2
Width		+0/-2	mm	EN 15283-2
Length		+0/-2	mm	EN 15283-2
Perpendicularity: deviation per meter of width		≤ 2.0	mm/m	EN 15283-2
Nominal Weight				
Surface-related mass	≥	15.0	kg/m ²	EN 15283-2
Bulk density	≥	1200	kg/m ³	EN 15283-2
Characteristic strength values				
Bending tensile strength		5.5	N/mm ²	EN 15283-2
Modulus of Elasticity	≥	3600	N/mm ²	EN 15283-2
Surface hardness - according to Brinell		35	N/mm ²	EN ISO 6506-1
Heat				
Thermal conductivity	$\lambda_{R,board}$	0.35	W/(m·K)	EN ISO 10456
	$\lambda_{10,dry}$	0.202	W/(m·K)	EN 12664
Thermal expansion		0.015	mm/(m·K)	referring to EN 318
Limit load by heat (long-term exposure)		max. 50 (short-term up to 60°C)	°C	Gypsum data book
Humidity				
Equilibrium moisture at 20°C, 65% r.h. approx.	%	1-1.3		EN 322
Moisture expansion when the RH changes by 30% (20°C)		0.045	%	EN 318
Thickness swelling after 24h water storage	≤	2	%	referring to EN 317
Water absorption of the board surface after 30min.	≤	1500	g/m ²	EN 15283-2
Water vapour diffusion-equivalent air layer thickness	sd	0.24	m	Calculated
Water vapour diffusion resistance factor	μ	19		EN ISO 12572
Notes				
Storage		Dry Flat and level Shady Cool		
Shelf Life		Unlimited		
Form of delivery		According to Pricelist		
Wast key		170802		

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The values listed in this product data sheet only reflect the performance characteristics of the products. In addition, gypsum plaster systems have structural and structural properties, which can be found in our system documentation (e. g. Planen und Bauen).

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