

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

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<b>Tolerances</b>				
Thickness		±0.2	mm	EN 15283-2
Width		+0/-2	mm	
Length		+0/-2	mm	
Perpendicularity: deviation per meter of width		≤ 2.0	mm/m	
<b>Nominal Weight</b>				
Surface-related mass	≥	15.0	kg/m <sup>2</sup>	EN 15283-2
Bulk density	≥	1200	kg/m <sup>3</sup>	
<b>Characteristic strength values</b>				
Bending tensile strength		5.5	N/mm <sup>2</sup>	EN 15283-2
Surface hardness - according to Brinell		35	N/mm <sup>2</sup>	EN ISO 6506-1
Arc resistance approved	class	LV 1.1.2		DIN VDE 0303-5
<b>Heat</b>				
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	Gypsum data book
<b>Humidity</b>				
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 <sup>2</sup>	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
<b>Notes</b>				
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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