

## Product data sheet

# Rigidur Flooring Element 20



**Product description:** Pre-primed gypsum fibreboards with rebate edges. Extremely hard and smooth surface without lamination on the reverse.

**Area of application:** For fast installation of dry floor screeds with fire protection requirements, in new buildings and the renovation of old buildings. Also to be used in combination with underfloor heating systems.



## Technical specifications

Parameters	Sign	Value	Unit	Certification
<b>Material</b>				
Type of material		gypsum fibre		
<b>Typesetting</b>				
Type		4B		EN 14190
<b>Building material class</b>				
Fire behaviour		A2-s1, d0		EN 13501-1
<b>Edges</b>				
Longitudinal edge		SFZ		
Transverse edge		SFZ		
Element joint		SFZ		
<b>Dimensions</b>				
Structure		2 x 10	mm	EN 13950
Width	w	500	mm	EN 14190
Length	l	1500	mm	EN 14190

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Parameters	Sign	Value	Unit	Certification
<b>Tolerances</b>				
Thickness		±1,0	mm	EN 14190
Width		-2/+0	mm	EN 14190
Length		-2/+0	mm	EN 14190
Perpendicularity: deviation per meter of width		≤ 2,0	mm/m	EN 14190
<b>Nominal Weight</b>				
Surface-related mass	≥	24.1	kg/m <sup>2</sup>	DIN 18180
<b>Characteristic strength values</b>				
Payload (point load)		4	kN	according to EN 1991-1-1/NA:2010-12
Area load		5	kN/m <sup>2</sup>	
Surface hardness - according to Brinell		35	N/mm <sup>2</sup>	EN ISO 6506-1
<b>Heat</b>				
Thermal conductivity	$\lambda_R$	0.35	W/(m·K)	EN ISO 10456
	$\lambda_{10,dry}$	0.202	W/(m·K)	EN 12664
Thermal resistance	R	0.06	m <sup>2</sup> ·K/W	EN 12524
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
<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
Moisture expansion per % change in humidity in the range 30% -65% (20°C)		0.0015	%	
Thickness swelling after 24h water storage	≤	2	%	referring to EN 317
Water vapour diffusion resistance factor	$\mu$	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		17 08 02		

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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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