

REGUFOAM FR Series

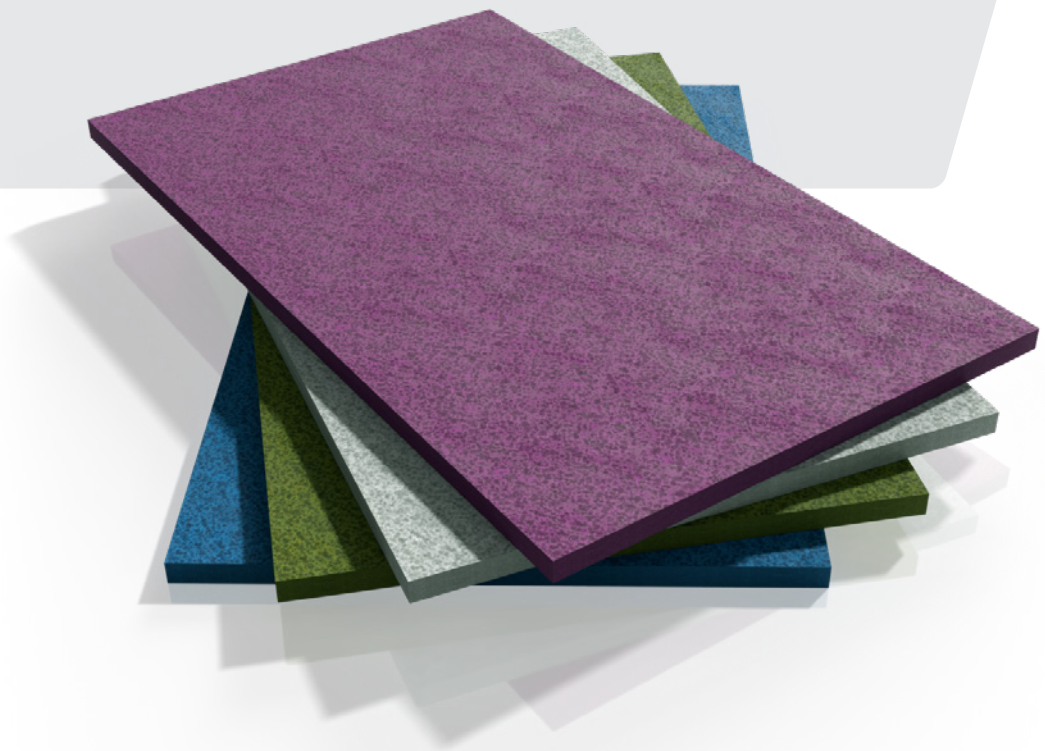
Sound insulating, fire retardant polyurethane foam

Description

REGUFOAM FR is a sound insulating, fire retardant, mixed-cell polyurethane foam. Customised strips and pads, self-adhesive versions and special roll lengths available on request.

Areas of Application

- Rolling stock
- Structure-borne sound decoupling
- Vibration isolation
- Vibration protection
- On request



Delivery and Packaging

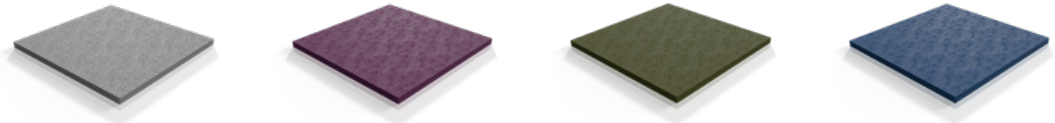
REGUFOAM FR Series	
Thickness	12.5 mm and 25 mm (customised thicknesses on request)
Length	1500 mm and 5000 mm (customised measurements possible)
Width	1000 mm and 1500 mm (customised widths possible)

Please contact us for further information:

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REGUFOAM FR Series

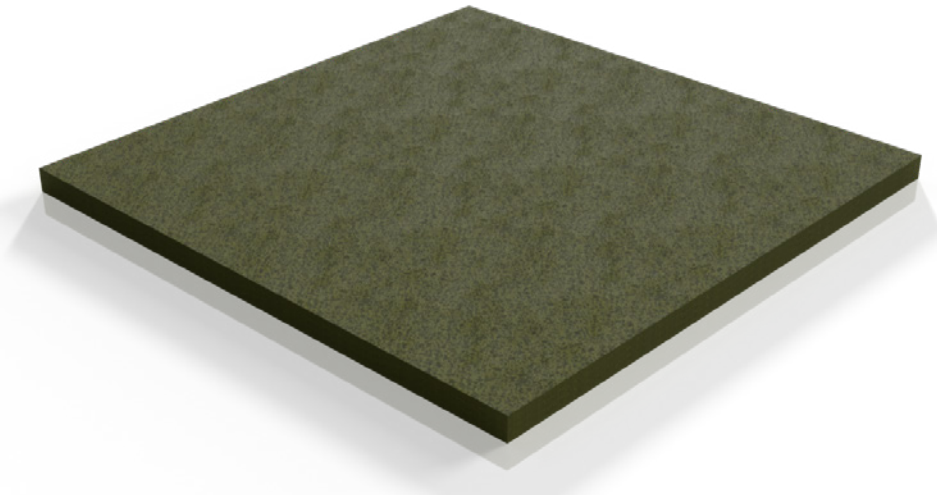
Technical Data



	REGUFOAM FR 221		REGUFOAM FR 301		REGUFOAM FR 401		REGUFOAM FR 511	
Maximum static load [N/mm ²]	0.028		0.055		0.110		0.220	
Thickness [mm]	12.5	25	12.5	25	12.5	25	12.5	25
Dimensions [mm]	5000 × 1500	5000 × 1500	5000 × 1500	5000 × 1000	1500 × 1000	1500 × 1000	1500 × 1000	1500 × 1000
Weight per m ² [kg]	approx. 3	approx. 6	approx. 4	approx. 8	approx. 5	approx. 10	approx. 7	approx. 14
Article number	0773212000	0773225000	0773312000	0773325000	0773412000	0773425000	0773512000	0773525000

REGUFOAM FR 401

Technical Data

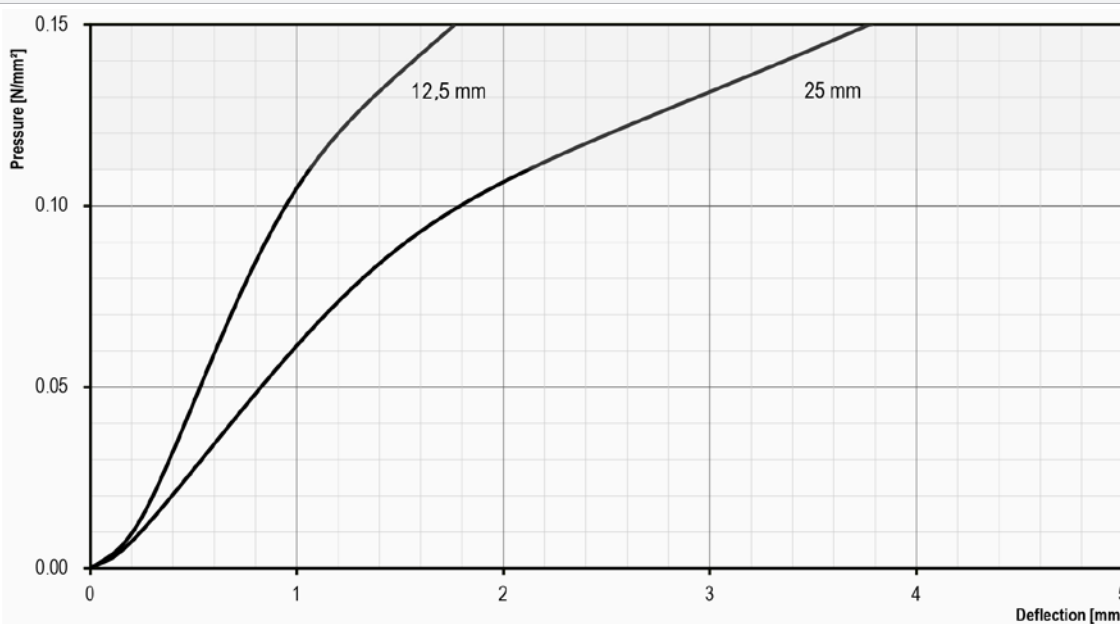


Maximum static load bearing capacity	0.110 N/mm ²		
Maximum dynamic load bearing capacity for intermitted loadings	0 to 0.16 N/mm ²		
Rare, short term peak loads	up to 3.00 N/mm ²		
Physical properties			
	Standard	Result	Commentary
Mechanical loss factor	DIN 53513	0.11	depending on load, amplitude and frequency
Tensile strength	in acc. with DIN EN ISO 1798	0.75 N/mm ²	
Elongation at break	in acc. with DIN EN ISO 1798	100 %	
Fire behaviour	DIN EN 45545-2	HL3	requirements for R10

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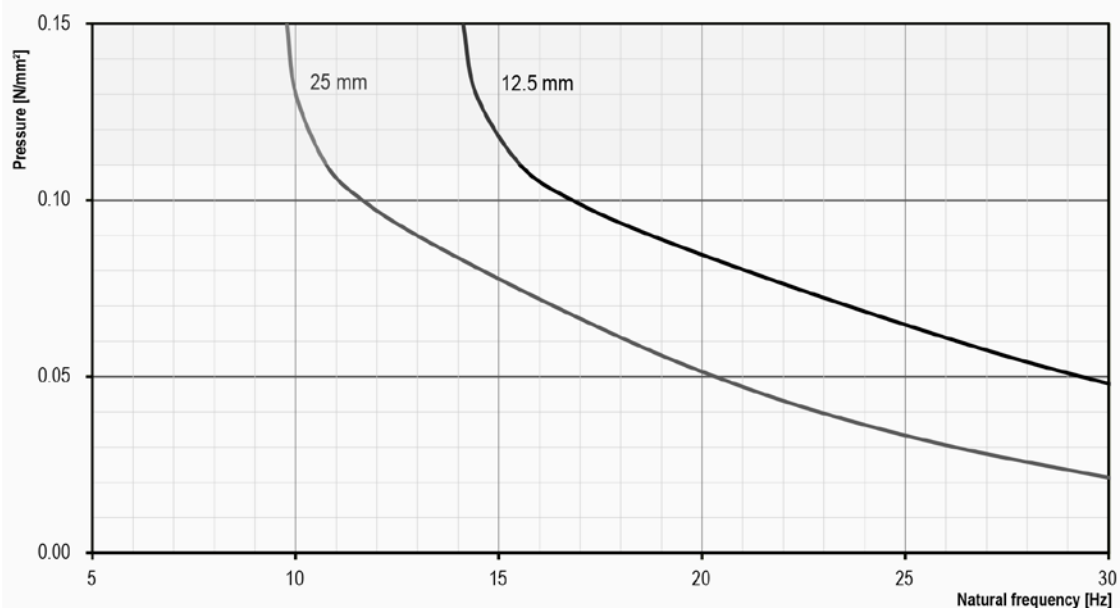
Technical Data

Load deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 × 300 mm.

Natural frequency



Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness on a rigid base. Dimensions of test specimens 300 mm × 300 mm.

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Technical Data

Dynamic stiffness

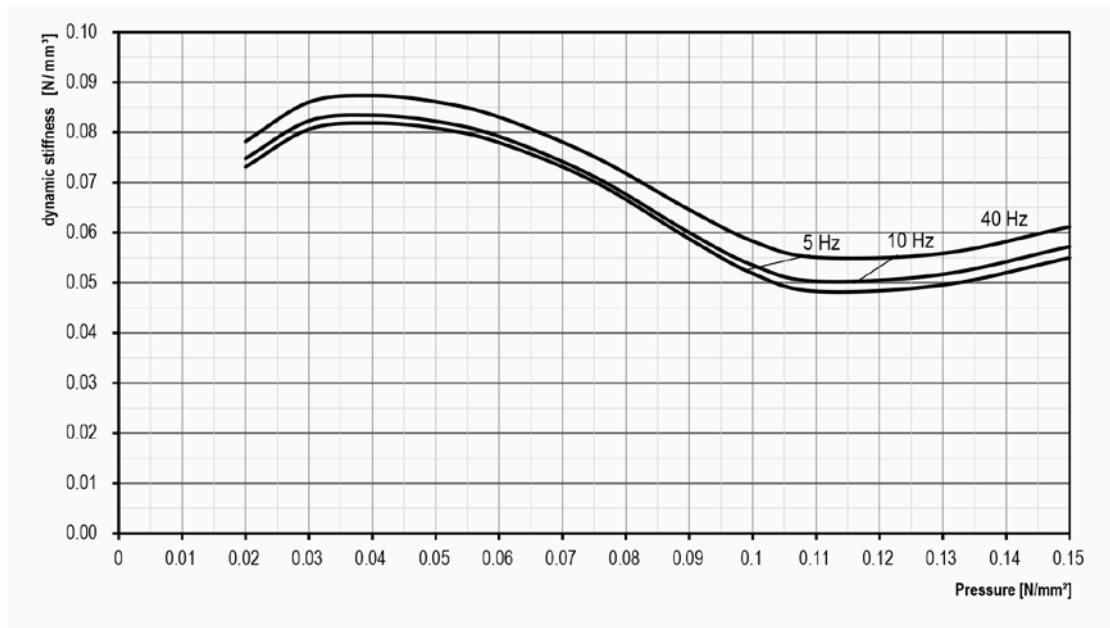


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens $300 \times 300 \times 25$ mm. Tested in accordance with DIN 53513.