TECHNICAL DATA

REGUPOL SONUS CURVE 15

Product
High performance impact and airborne sound insulating underlayment for various floor structures under screed beds and floating floors.

Material
- PUR-bonded recycled rubber fibres
- Dimpled profile on the underside

Weight
6.0 kg/m²

Dimensions
Length: 15,000 mm, Width: 1,150 mm, Thickness: 15 mm

Applications
Under cement or gypsum screed beds, concrete or timber toppings and other floating floor solutions for both residential and commercial use, e. g. cinemas, theatres or mechanical rooms.

Certification
GreenCircle certified for recycled content and can potentially qualify for up to 8 LEED points.

Acoustical Performance*	**Standard**	**Result**
Under concrete:		
100 mm reinforced concrete, **REGUPOL sonus curve 15,** 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2 ASTM E492-09 ASTM E989-06	$\Delta L_w \geq 26$ dB IIC 59 (ΔIIC 30)
	DIN EN ISO 10140-1 DIN EN ISO 717-1 ASTM E413-10 ASTM E90-09	R_w 64 dB STC 64

*Assembly from top to bottom

Material properties	**Standard**	**Result**
Maximum surface load		50 kN/m²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 18$ MN/m³
Compressibility	DIN EN 12431	c ≤ 1.5 mm

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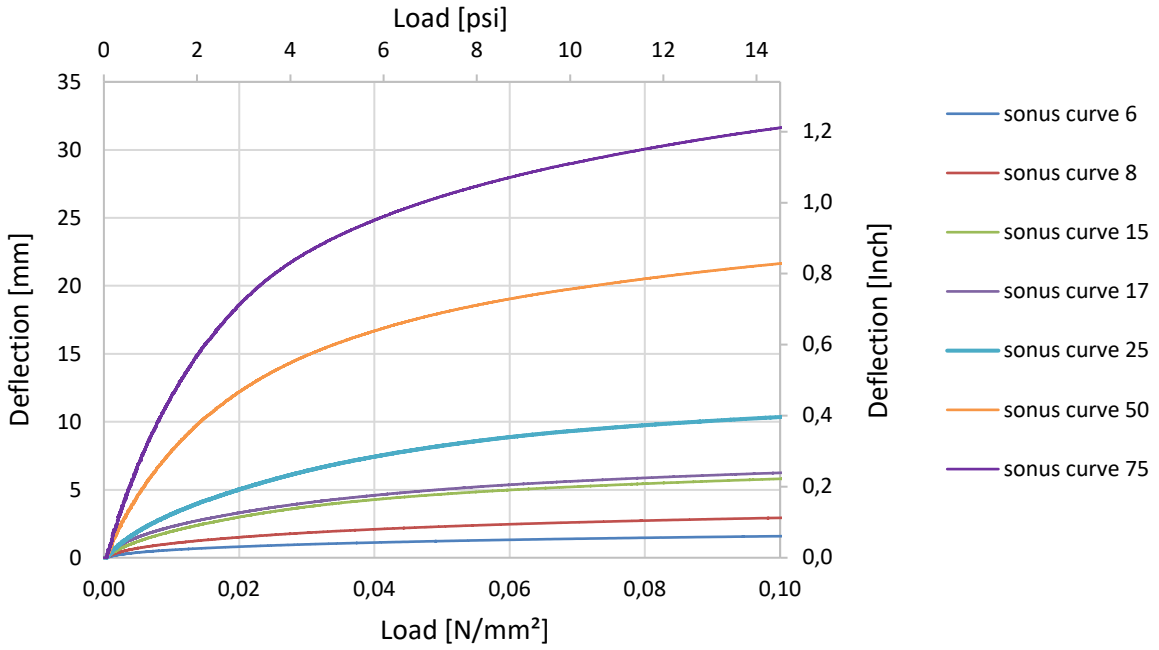
Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	λ = 0.075 W/(mK)
Thermal resistance	DIN EN 12667	R = 0.14 (m^2K)/W
Temperature resistance		-20 to +60° C

Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E

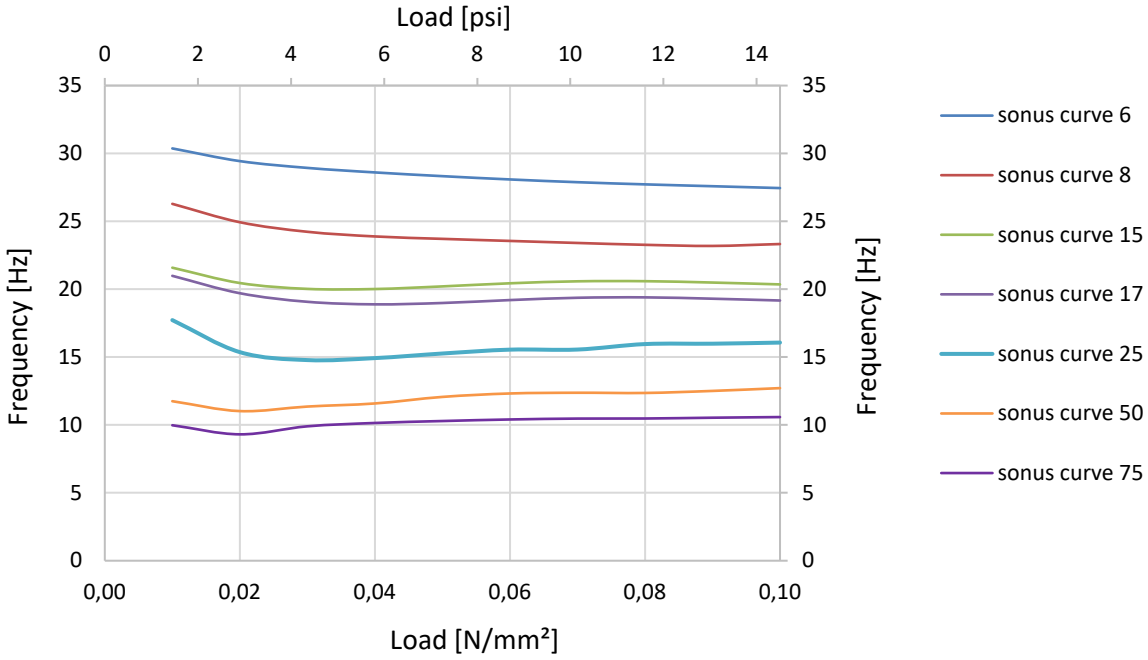
Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; "A+" as per décret n°2011-321
Nitrosamine	DIK Method	compliant with German Model Building Regulation
PAH	DIN EN 18287	compliant with German Model Building Regulation

Physical data - Deflection



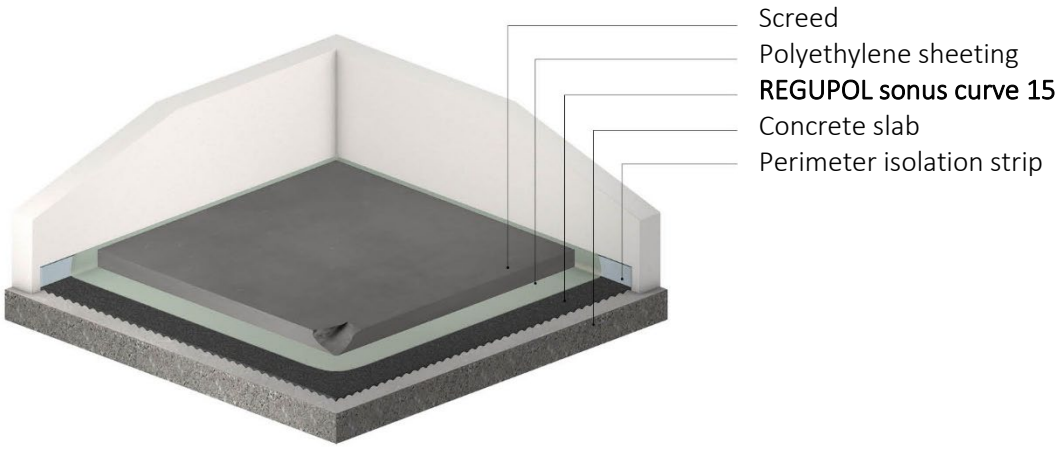
Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

Physical data – Natural frequency



Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

Floor Assembly



For more assemblies and acoustic test reports, please visit **www.regupol.com**.