

# TECHNICAL DATA SHEET

## REGUPOL SONUS CURVE 25



### 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

100.0 kg/roll – 9.0 kg/m<sup>2</sup>

### Dimensions

Length: 8,500 mm, Width: 1,250 mm, Thickness: 25 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 screed:		
45 mm anhydrite screed, <b>REGUPOL sonus curve 25</b> , 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2 ASTM E492-09 / E2179-03 ASTM E989-06	$\Delta L_w \geq 35$ dB  IIC 68 ( $\Delta$ IIC 34)
Under concrete:		
38 mm concrete topping, <b>REGUPOL sonus curve 25</b> , 131 mm CLT ceiling	ASTM E492-09 ASTM E989-06  ASTM E90-09 ASTM E413-10	IIC 49  STC 56

\*Assembly from top to bottom

Material properties	Standard	Result
Maximum surface load		50 kN/m <sup>2</sup>
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 13$ MN/m <sup>3</sup>
Compressibility	DIN EN 12431	$c \leq 2$ mm

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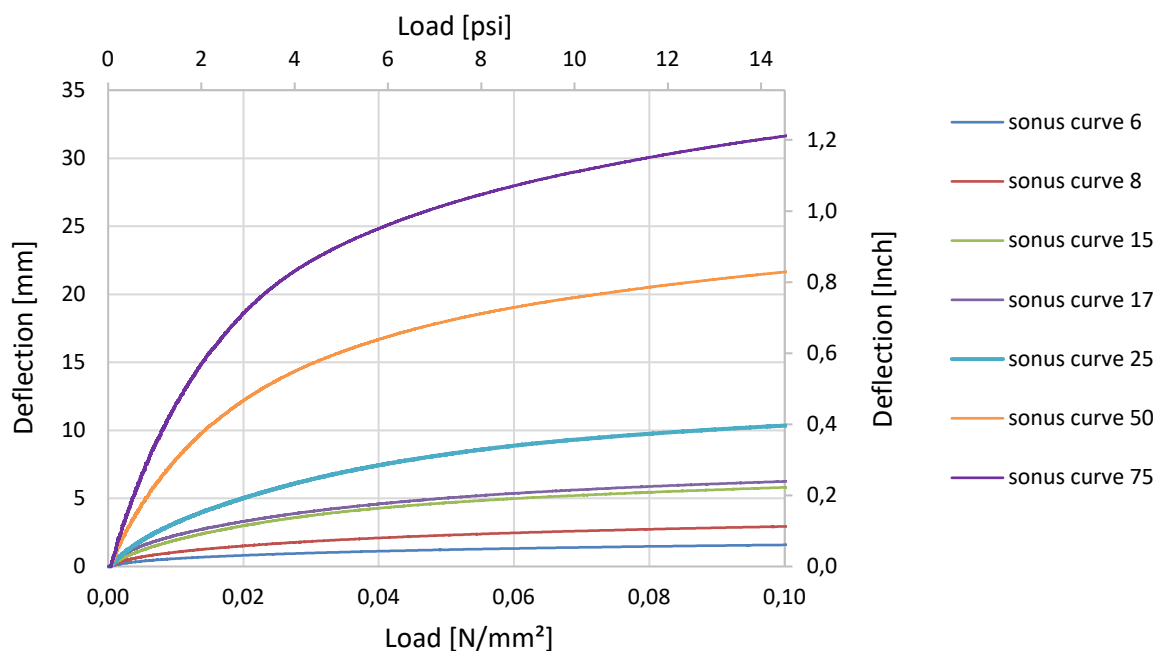


Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.075 \text{ W}/(\text{mK})$
Thermal resistance	DIN EN 12667	$R = 0.213 \text{ (m}^2\text{K)/W}$
Temperature resistance		-20 to +60° C

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

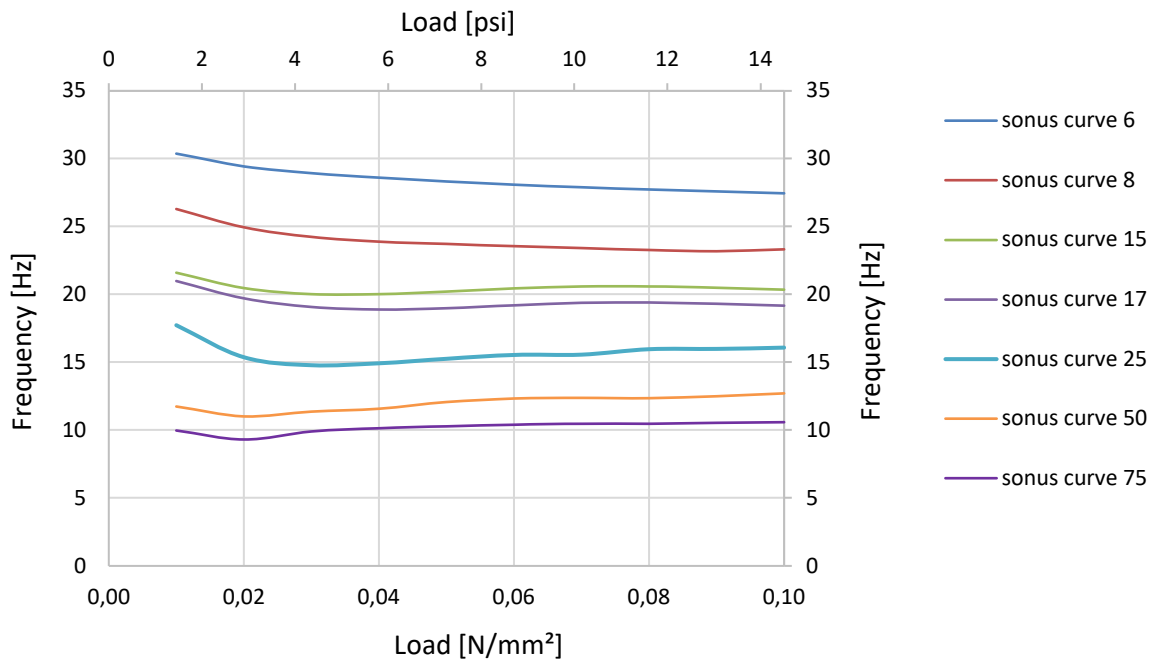
Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; "A+" as per décret n°2011-321
Nitrosamine	DIK Method	compliant with German Model Building Regulation
PAH	DIN EN 18287	compliant with German Model Building Regulation

### Physical data - Deflection



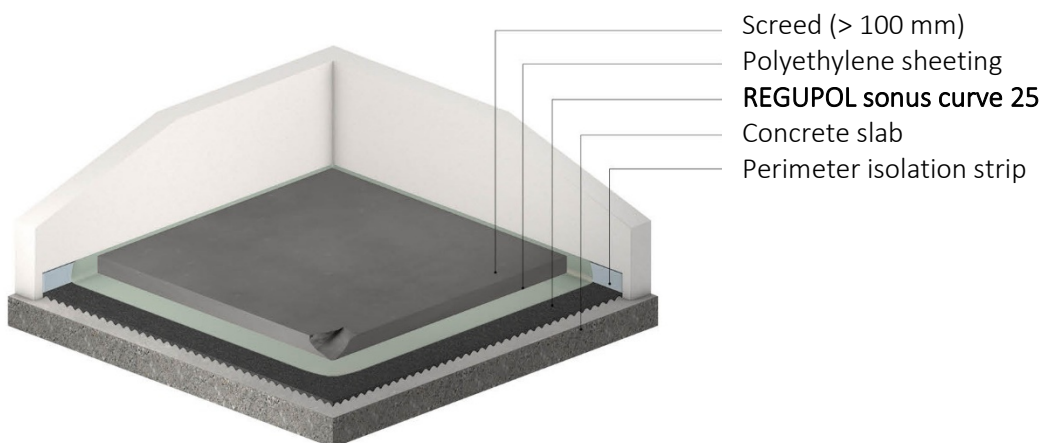
Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

**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](http://www.regupol.com).