TECHNICAL DATA

REGUPOL SONUS CURVE 25

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

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

Certification

- **Cradle to Cradle Certified®** is a registered trademark of the Cradle to Cradle Products Innovation Institute.
- Manufacturer EPD available upon request.
- Green Circle Certified.

Material

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

Features and Benefits

- Excellent impact and airborne performance
- Offers long term performance without collapse or “bottoming” out under high point loads
- Resistant to ageing and deformation
- Quick and easy to install
- Mildew and moisture proof
- Manufactured using recycled materials – the proportion of pre and post-consumer content is listed in the products Green Circle Certificate which is available upon request.
- Manufacturing facility certified to ISO 9001, ISO 45001, ISO 14001, ISO 50001

Physical information

Roll width	1250mm	
Roll length	8.5m	
Material thickness	25mm	
Weight per roll / per m²	†102.1kg	†9.2kg/m²
Material composition	Recycled Rubber	

†Approximate Values

Acoustical Performance*	Standard	Result	Comment
100 mm concrete topping, **REGUPOL sonus curve 25,** 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2 DIN EN ISO 10140-1 DIN EN ISO 717-1	$\Delta L_w \geq 32$ dB $L_{n,r,w}$ 46 dB R_w 62 dB	Test reports ACL185-21 ACL184-21
REGUPOL sonus curve 25 140mm solid concrete floor	BS EN ISO 10140-3:2021	ΔL_w 46dB	SRL Cert. No. 16561
46mm concrete REGUPOL sonus curve 25 140mm solid concrete floor	BS EN ISO 10140-3:2021	ΔL_w 38dB	SRL Cert. No. 16562

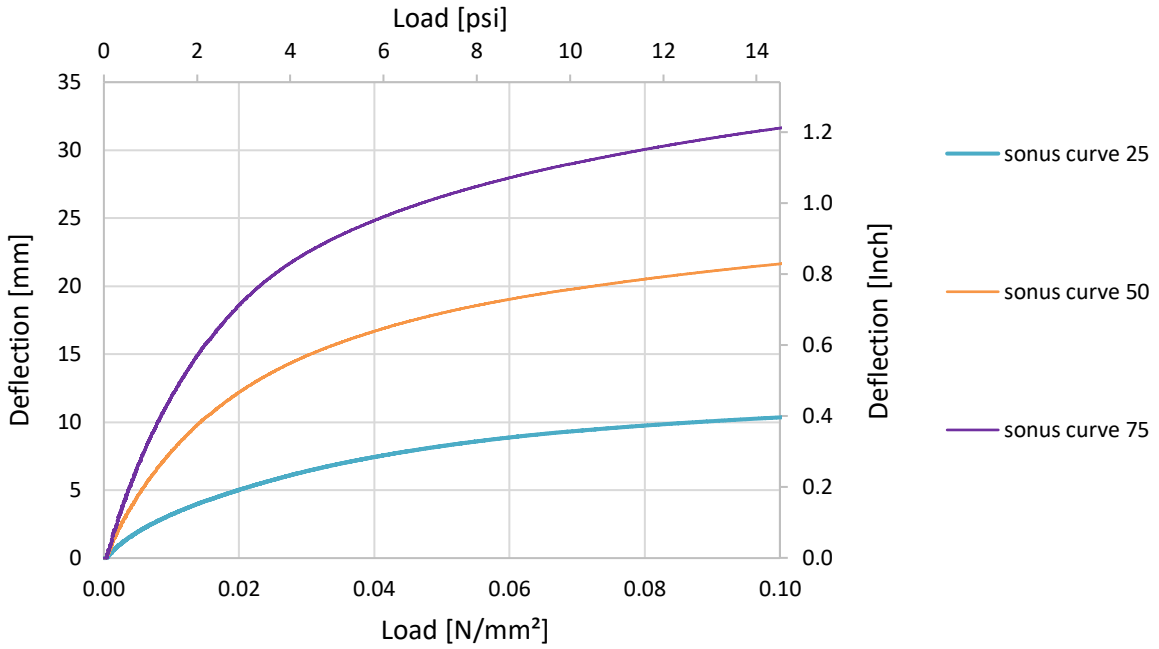
*Assembly from top to bottom

Material properties	Standard	Result
Maximum surface load		50 kN/m²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 13$ MN/m^3
Compressibility	DIN EN 12431	$c \leq 2$ mm

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

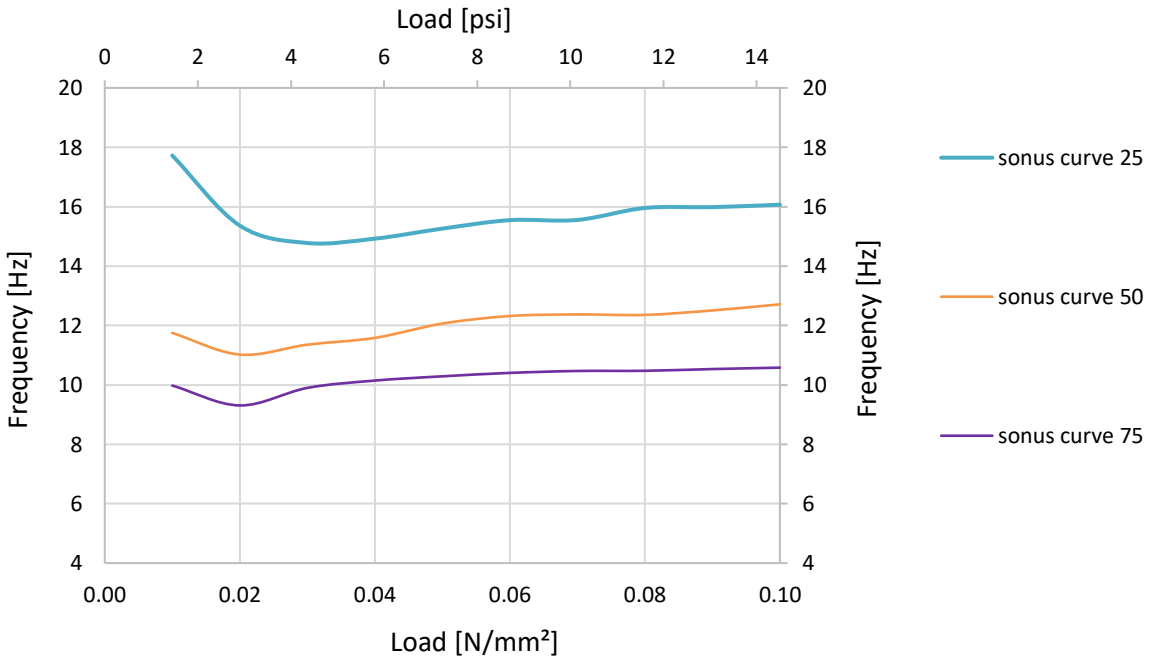
Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; “A+” as per décret n°2011-321

Physical data - Deflection



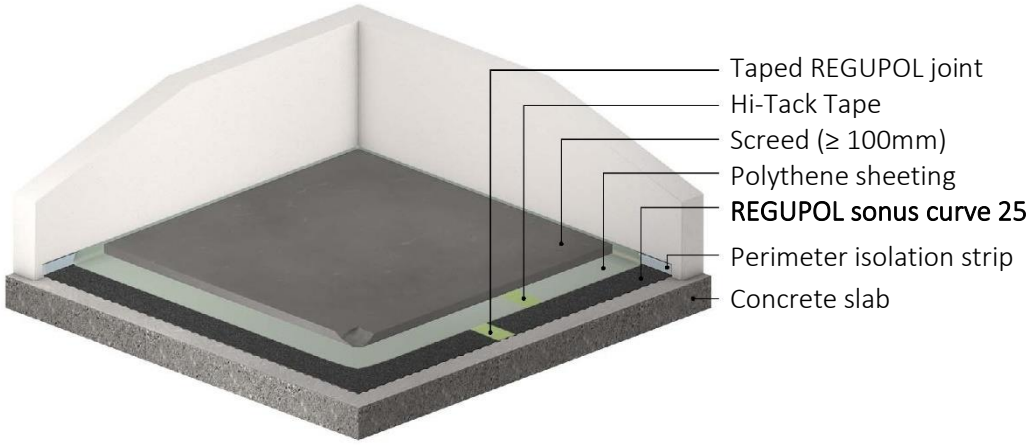
Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

Physical data – Natural frequency

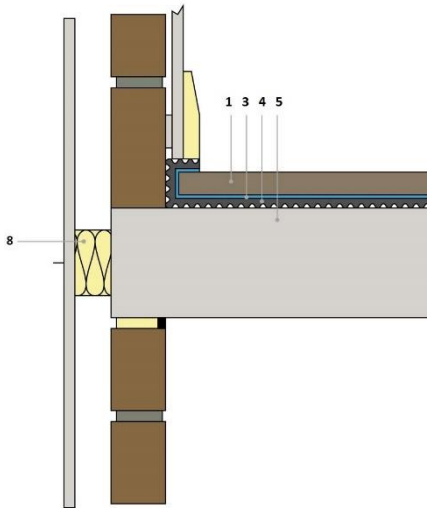


Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

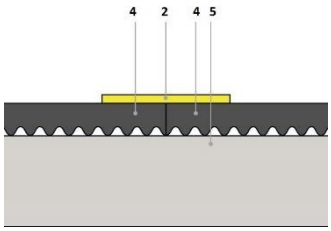
Floor assembly



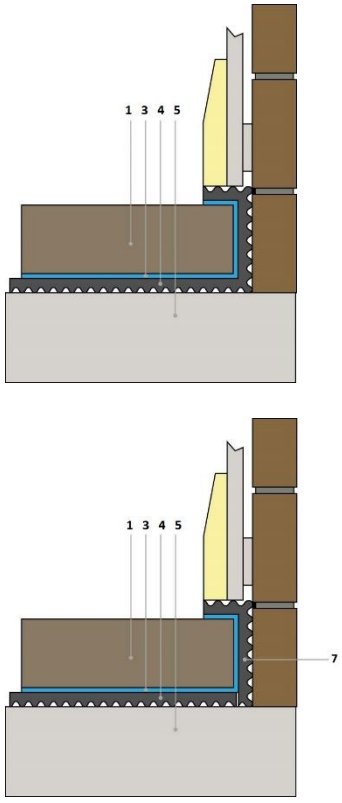
Construction Detail



Joint Details



Perimeter Details



1 Screed
2 Hi-Tack tape
3 Polythene sheeting
4 REGUPOL sonus curve
5 Concrete slab
6 Suspended ceiling system
7 Perimeter isolation strip
8 Acoustic cavity closer

Storage

REGUPOL sonus curve should be protected from moisture during storage, transport and installation.