

TECHNICAL DATA

REGUPOL SONUS CURVE 17



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

95.0 kg/roll – 6.9 kg/m²

Dimensions

Length: 10,000 mm, Width: 1,250 mm, Thickness: 17 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.

Cradle to Cradle Certified[®] is a registered trademark of the Cradle to Cradle Products Innovation Institute.



REGUPOL sonus curve 6 is Cradle to Cradle Certified[®] at the Bronze level.

Acoustical Performance*	Standard	Result	
Under screed:			
45 mm anhydrite screed, REGUPOL sonus curve 17 , 140 mm concrete slab	DIN EN ISO 10140-3	$\Delta L_w \geq 28$ dB	
	DIN EN ISO 717-2		
	ASTM E492-09	IIC 64 (Δ IIC 29)	
	ASTM E989-06		
	DIN EN ISO 10140-1	R_w 63 dB	
	DIN EN ISO 717-1		
	ASTM E413-10	STC 64	
	ASTM E90-09		
Under timber:			
19 mm T&G timber bonded to 18 mm Yellow Tongue plywood bonded to REGUPOL sonus curve 17 , 170 mm concrete slab	ISO 10140-3	$L_{n,w} = 53$ dB	
	ISO 717-2	$\Delta L_w = 27$ dB	
	(Indicative results only)		
	ASTM E492-09	IIC 55	
	ASTM E989-06		
	Under concrete:		
	38 mm concrete topping, REGUPOL sonus curve 17 ,	ASTM E492-09	IIC 60
		ASTM E989-06	
OSB raft system with sand on 131 mm CLT ceiling	ASTM E413-10	STC 66	
	ASTM E90-09		

*Assembly from top to bottom

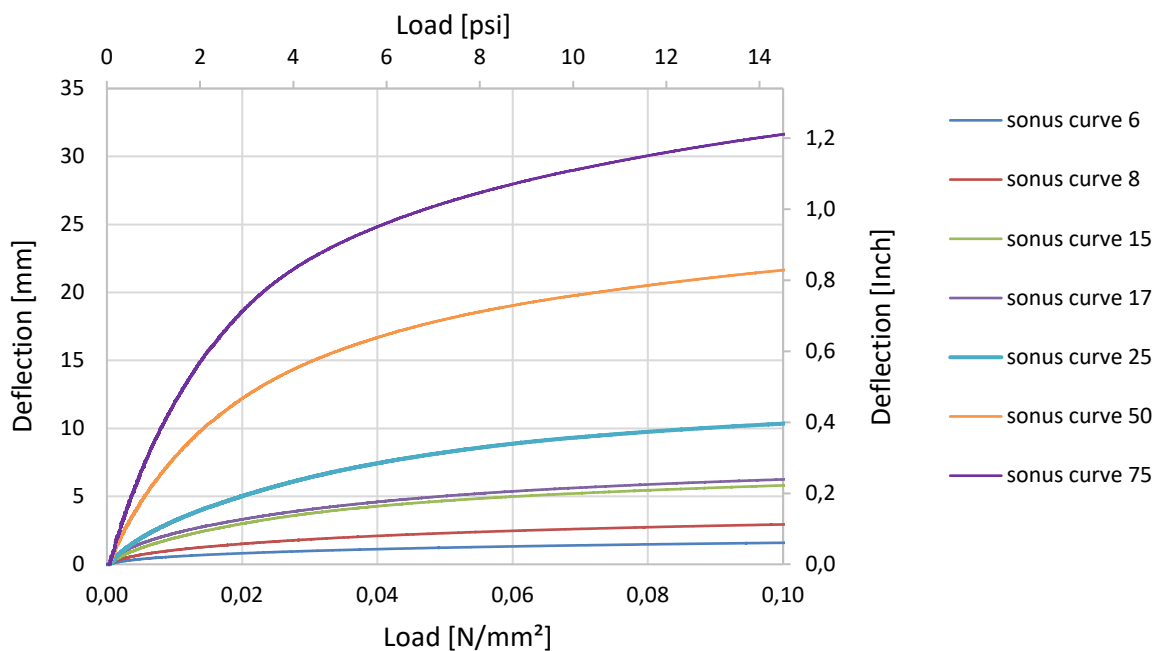
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Material properties	Standard	Result
Maximum surface load		50 kN/m ²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 15 \text{ MN/m}^3$
Compressibility	DIN EN 12431	$c \leq 2 \text{ mm}$
Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.075 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	$R = 0.167 \text{ (m}^2\text{K)/W}$
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



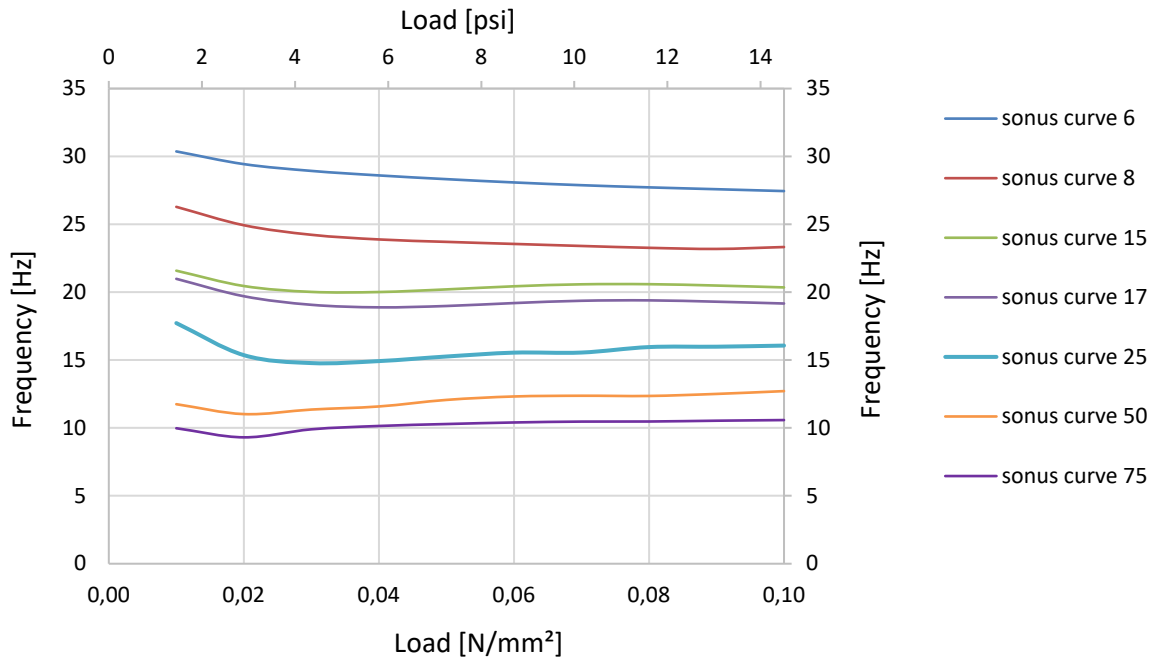
Test results as per test report 07-2019 conducted by Technical University of Dresden, Germany

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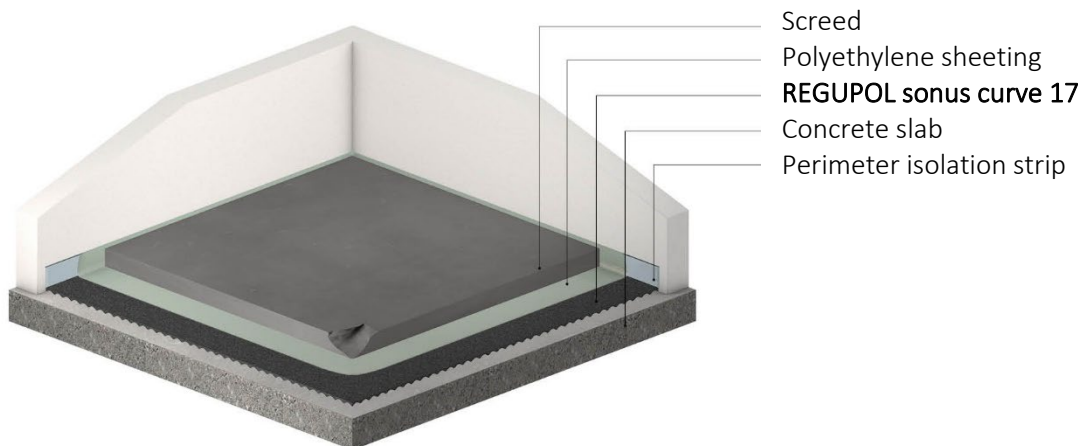


Physical data – Natural frequency



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.