TECHNICAL DATA

# REGUPOL SONUS CURVE 8

**Product**
Sustainable 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**
3.6 kg/m²

**Dimensions**
Length: 13,000 mm, Width: 1,150 mm, Thickness: 8 mm

**Applications**
Under cement or gypsum screed beds, concrete or timber toppings and other floating floor solutions for both residential and commercial use.

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

| **Acoustical Performance*** | **Standard** | **Result** |
|---|---|---|
| Under cement screed: | | |
| 70 mm cement screed,<br>**REGUPOL sonus curve 8**,<br>140 mm concrete slab | DIN EN ISO 10140-3<br>DIN EN ISO 717-2 | $\Delta L_w \geq 22$ dB |
| Under ceramic tiles: | | |
| 8mm ceramic tiles,<br>30 mm bonded screed,<br>**REGUPOL sonus curve 8**,<br>150 mm concrete slab | ISO 10140-3<br>ISO 717-2<br><br>ASTM E492-09<br>ASTM E989-06 | $L_{n,w} = 50$ dB<br>$\Delta L_w = 26$ dB<br><br>IIC 59 |
| Under engineered timber: | | |
| 14mm engineered timber (floating)<br>**REGUPOL sonus curve 8**<br>150 mm concrete slab | ISO 10140-3<br>ISO 717-2<br><br>ASTM E492-09<br>ASTM E989-06 | $L_{n,w} = 57$ dB<br>$\Delta L_w = 18$ dB<br><br>IIC 53 |

*Assembly from top to bottom

| **Material properties** | **Standard** | **Result** |
|---|---|---|
| Maximum surface load | | 50 kN/m² |
| Mean dynamic stiffness value | DIN EN 29052-1 | $s'_t \leq 30$ MN/m³ |
| Compressibility | DIN EN 12431 | $c \leq 1$ mm |

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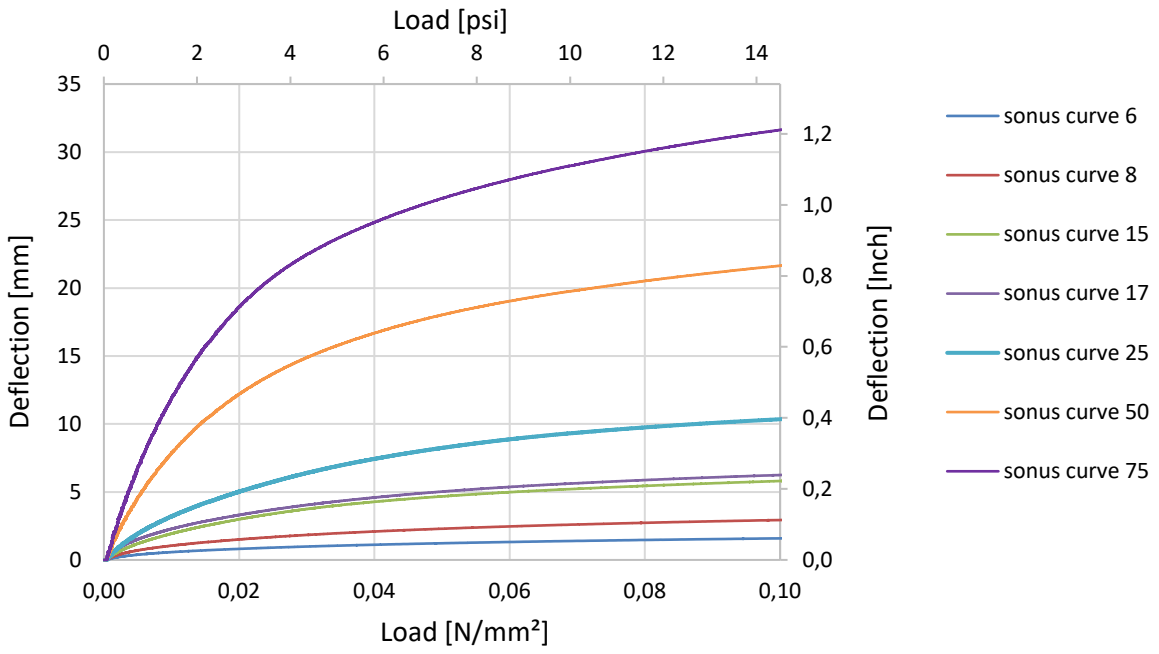
| Thermal behaviour | Standard | Result |
|---|---|---|
| Thermal conductivity | DIN EN 12667 | λ = 0.075 W/(mK) |
| Thermal resistance | DIN EN 12667 | R = 0.08 ($m^2$K)/W |
| Temperature resistance | | -20 to +60° C |

| 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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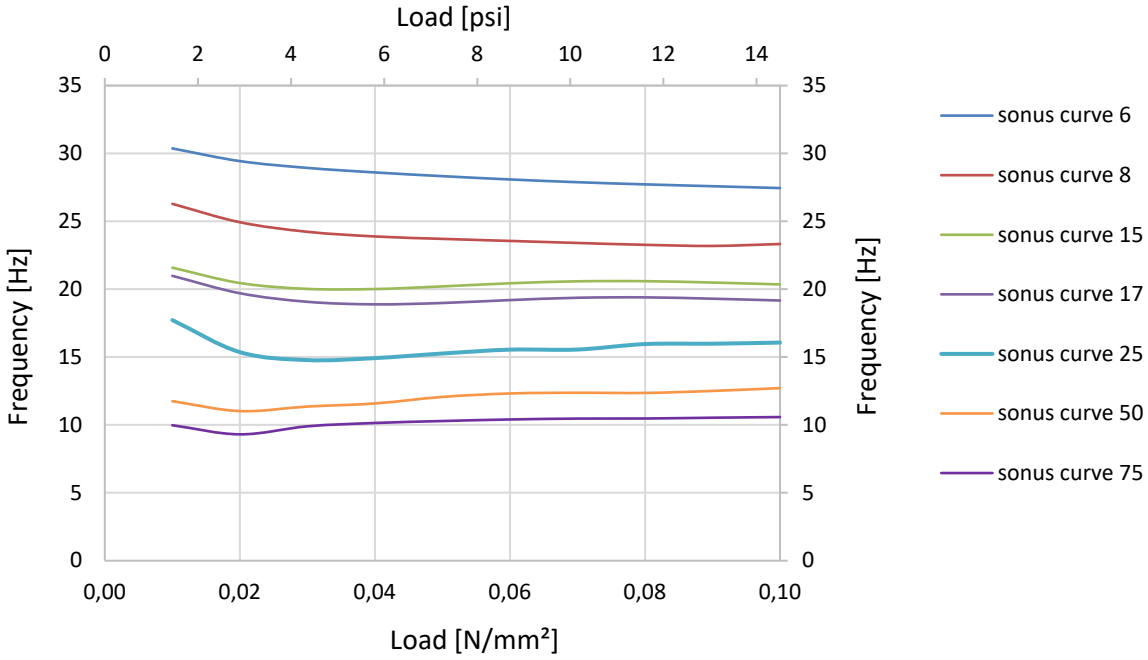
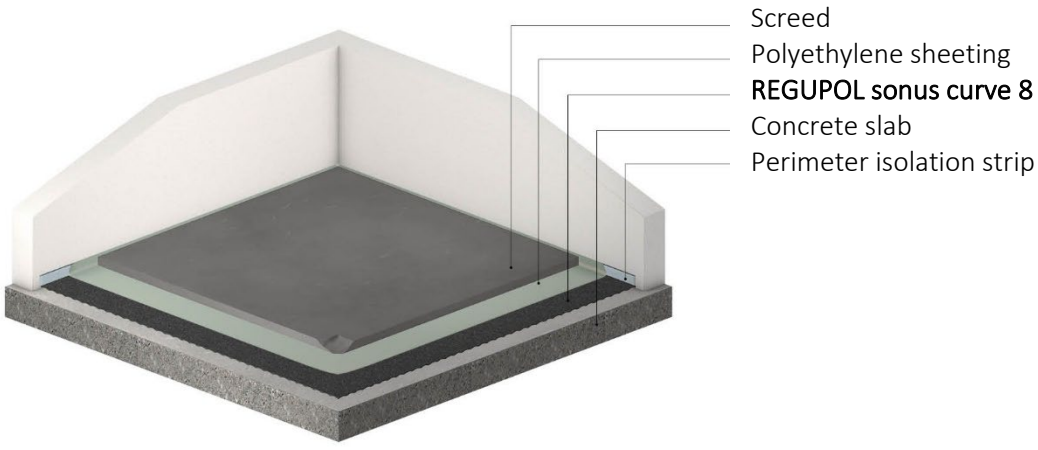
## Physical data – Natural frequency




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**.