

## TECHNICAL DATA

**REGUPOL SONUS CURVE 8**

formerly REGUPOL E48

**Product**

Recycled tyre crumb product designed to isolate screeds from the main structure of the building, reducing impact energy generated by general footfall.

**REGUPOL sonus curve 8** offers enhanced acoustic performance at loads up to and including 30 kN/m<sup>2</sup> and having a dimpled surface on one side increases air movement, further aiding overall performance.

**REGUPOL sonus curve 8** meets the requirements of Approved Document E (England & Wales), Technical Booklet G (Northern Ireland) and Section 5 of the Building Regulations (Scotland).

**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
- Minimises construction heights
- 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

**Applications**

**REGUPOL sonus curve 8** has been developed to offer enhanced isolation and impact sound performance in:

- Apartments
- Hospitals
- Hotels
- Retail
- Schools

### Physical information

Roll width	1150mm
Roll length	13m
Material thickness	8mm
Weight per roll / per m <sup>2</sup>	†57kg   †3.6kg/m <sup>2</sup>
Material composition	Recycled Rubber

†Approximate Values

Acoustical Performance	Standard	Result	Comment
<b>REGUPOL sonus curve 8,</b> Heavyweight Standard Floor	BS EN ISO 10140-3:2010	$\Delta L_w \geq 31$ dB	SRL Test Report No. C/23963/T01a
<b>REGUPOL sonus curve 8,</b> Heavyweight Standard Floor	BS EN ISO 140-4:1998 BS EN ISO 140-7:1998	$L'_{nT,w}$ 47 dB $D_{nT,w}$ 49 dB	Mean value*
70mm cement screed <b>REGUPOL sonus curve 8,</b> 140mm concrete slab	DIN EN ISO 140-3 BS EN ISO 717-2	$\Delta L_w \geq 21$ dB	
40mm flowing screed <b>REGUPOL sonus curve 8,</b> 160mm solid concrete floor	EN ISO 717-2 EN ISO 717-1	** $L'_{nT,w}$ 48 dB ** $D_{nT,w}$ + Ctr 53.8dB	Field Test Report No. NDT4504/14001
100 mm reinforced concrete, <b>REGUPOL sonus curve 8,</b> 140 mm concrete slab	DIN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 21$ dB $L_{n,w}$ 57 dB	Test report 024-H418-42823
	DIN EN ISO 10140-1 DIN EN ISO 717-1	$R_w$ 61 dB	024-H417-42823

\*Mean Value from Pine Street Field Tests.

\*\*Mean Value from Shangri-La Hotel, The Shard Field Tests.

Material properties	Standard	Result
Density		approx. 575 kg/m <sup>3</sup>
Maximum surface load		30 kN/m <sup>2</sup>
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 30$ MN/m <sup>3</sup>
Compressibility	DIN EN 12431	$c \leq 1$ mm

Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.075$ W/(mK)
Thermal resistance	DIN EN 12667	$R = 0.08$ (m <sup>2</sup> 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

### Installation

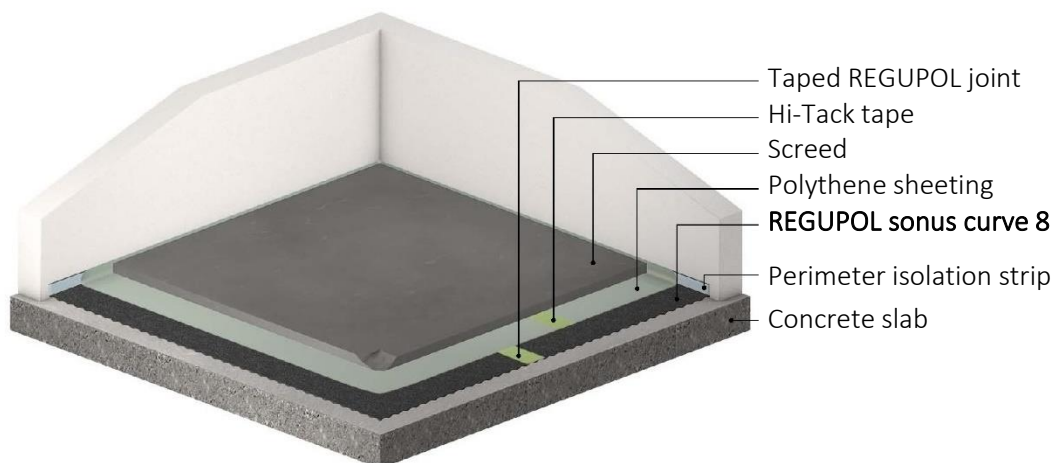
Full installation guidelines are available upon request.

## Storage

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

## Floor assembly example

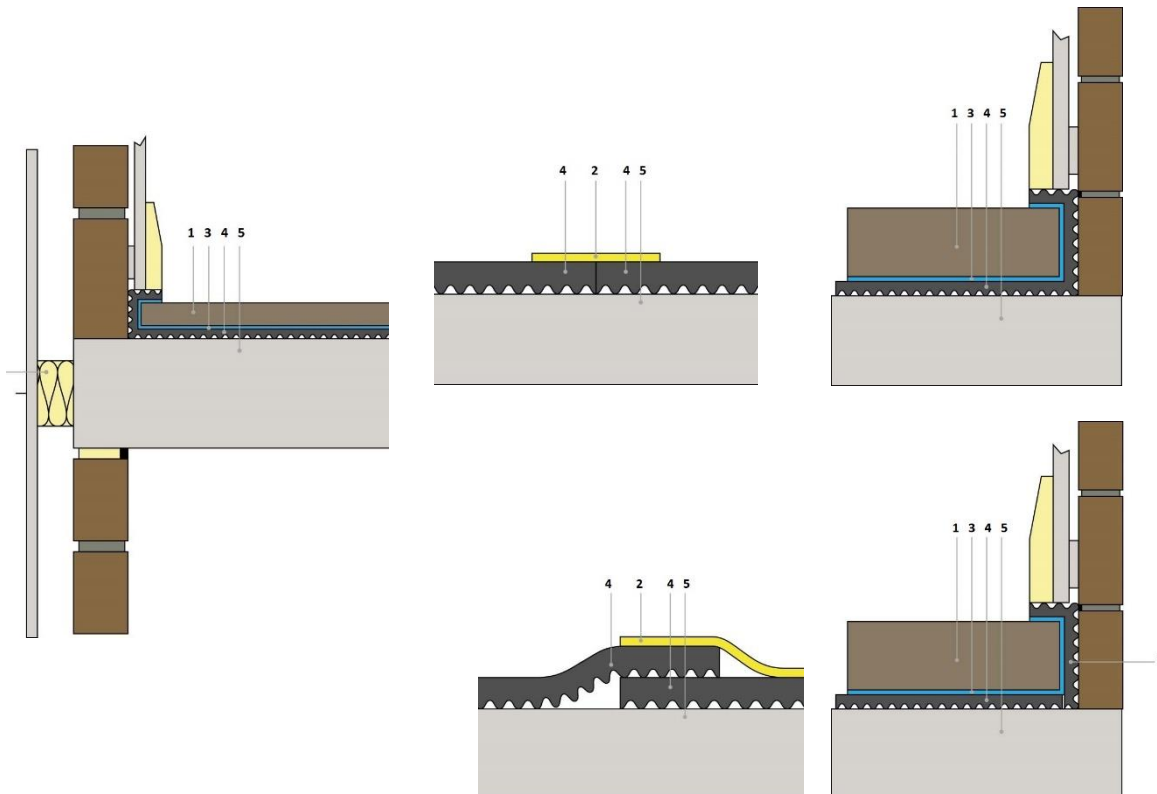
Cement screed



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

**IMPORTANT:** The information provided within this document is believed correct and to the best of our available knowledge at its revision date and is provided as suggestion for safe handling, storage, transportation, use and disposal. The information should not be considered obligation in respect of warranty of (technical) performance, quality (specification) or suitability for any application or design. The customer must satisfy themselves the product (or draft specification) are relevant and suitable for their need and design intent. Prospective users should test a sample of product under their own conditions to satisfy themselves of its suitability for intended purpose and that expert advice be sought where different applications are contemplated. Due to our policy of continuous improvement we reserve the right to alter or amend published specification or design without prior notice. Reproduction of any part of this publication in any manner is not permitted without our prior written consent.