

TECHNICAL DATA

REGUPOL SONUS CORE 10-S

formerly REGUPOL 6010 SH

Product

A recycled crumb product specifically developed for heavy load bearing areas where acoustic performance is critical. A high performing screed isolation solution, **REGUPOL sonus core 10-S** delivers significant load bearing capacity.

REGUPOL sonus core 10-S 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.

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
- High quality and exact material thickness guaranteed
- 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

Designed for a wide range of high-performance isolation applications, **REGUPOL sonus core 10-S** is particularly suited to heavily loaded areas in:

- Luxury apartments
- Penthouses
- Hotels
- Schools
- Hospitals
- Libraries
- Retail
- Music studios



Physical information

Roll width	1250mm	
Roll length	10m	
Material thickness	10mm	
Weight per roll / per m ²	†73.5kg	†5.88kg/m ²
Material composition	Recycled Rubber	

†Approximate Values

Acoustical Performance*	Standard	Result	Comment
REGUPOL sonus core 10-S 140mm solid concrete floor	BS EN ISO 10140-3:2021	ΔL_w 27 dB	SRL Test Cert. No. 16557
46mm concrete topping REGUPOL sonus core 10-S 140mm solid concrete floor	BS EN ISO 10140-3:2021	ΔL_w 28 dB	SRL Test Cert. No. 16558
REGUPOL sonus core 10-S Heavyweight Standard Floor	BS EN ISO 140-8: 1998	ΔL_w 27 dB	Test report 4978
40mm cement screed REGUPOL sonus core 10-S 260mm concrete slab	Insul method	$L_{n,r,w}$ 40 dB	Test report PC-14-0107-LLT1

*Assembly from top to bottom

Material properties	Standard	Result
Density		approx. 575 kg/m ³
Maximum surface load		150 kN/m ²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t = 55 \text{ MN/m}^3$
Elongation at break	DIN EN ISO 1798	≥ 40 %
Tensile strength	DIN EN ISO 1798	≥ 0.3 N/mm ²

Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	approx. $\lambda = 0.09 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	approx. $R = 0.11 \text{ (m}^2\text{K)/W}$
Temperature resistance		-20 to +60° C

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

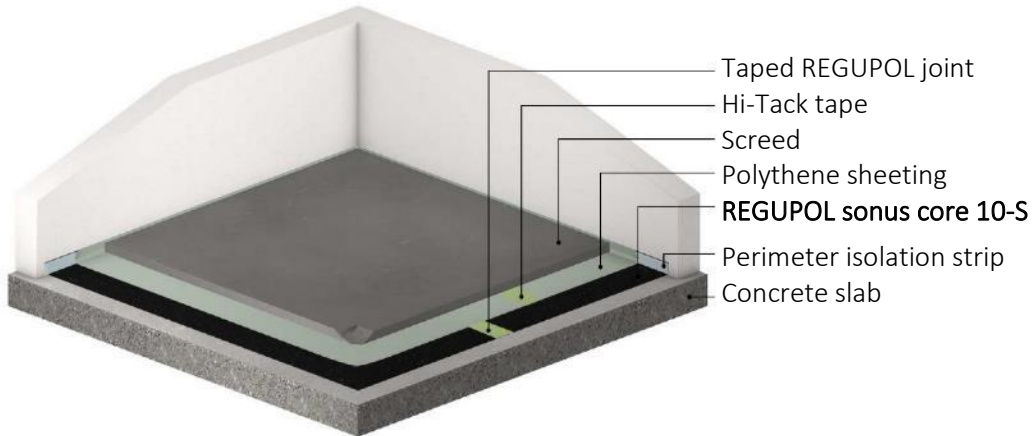
Installation

Full installation guidelines are available upon request.

Storage

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

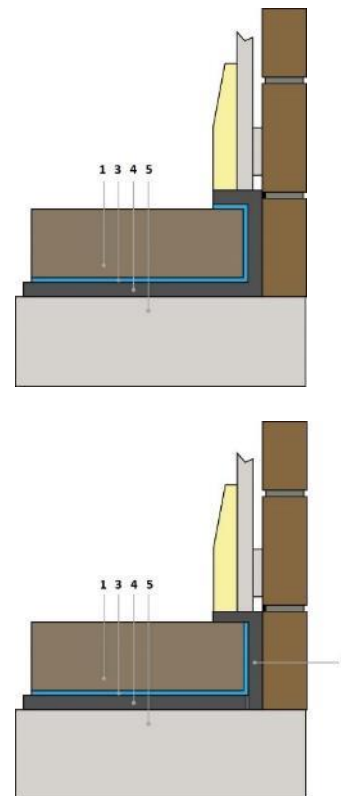
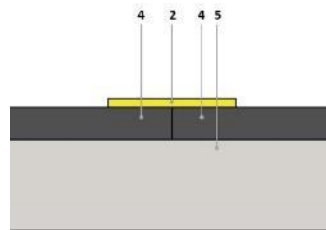
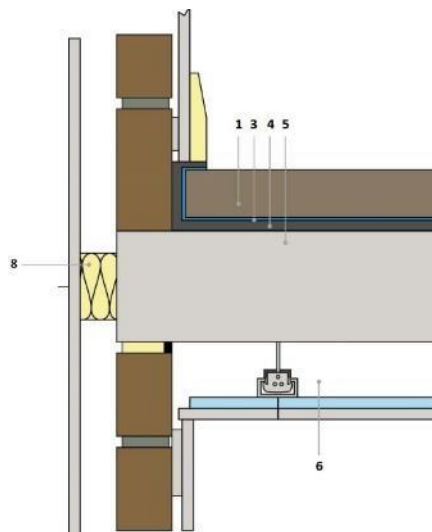
Floor assembly
Cement screed



Construction Detail

Joint Detail

Perimeter Details



- 1 Screed
- 2 Hi-Tack tape
- 3 Polythene sheeting
- 4 REGUPOL sonus core

- 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.