TECHNICAL DATA

REGUPOL SONUS 3912

formerly REGUPOL 3912

Product

Tough, resilient acoustic underlay manufactured from PUR Foam and is ideally suited to refurbishment and timber based constructions to comply with Part E. It is also suitable for concrete constructions.

REGUPOL sonus 3912 meets the requirements of Approved Document E (England & Wales), Technical Booklet G (Northern Ireland) and Example Construction floors under Section 5 (Scotland) – See performance section for details.

Certification

- Manufacturer EPD available upon request.
- Green Circle Certified.

Features and Benefits

- Offers long term performance without collapse or “bottoming” out under high point loads
- Resistant to ageing and deformation
- Quick and easy to install - simply bond to the subfloor beneath the final floor finish
- Reduces construction heights
- Suitable for both new build and refurbishments, although can be used for new build also
- High quality and exact material thickness guaranteed
- Suitable for use with under floor heating
- Very comfortable under foot
- 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

Suitable floor finishes

- Carpet
- Engineered flooring
- LVT and Vinyl sheeting*

* T&G ply of a suitable rigidity must be used at all times

Physical information

Roll width	1000mm	
Roll length	15m	
Material thickness	6mm	
Weight per roll / per m²	†33kg	†2.20kg/m²
Material composition	PUR foam elastomers	

†Approximate Values

Acoustical Performance	Standard	Result	Comment
REGUPOL sonus 3912 160mm solid concrete floor	BS EN ISO 140-8:1998	ΔL_w 23dB	SRL Test Cert. No. 3856
REGUPOL sonus 3912 140mm solid concrete floor	BS EN ISO 10140-3:2021	ΔL_w 21dB	SRL Cert. No. 15973

Material properties	Standard	Result
Density		approx. 370 kg/m³
Elongation at break	DIN EN ISO 1798	≥ 20 %
Tensile strength	DIN EN ISO 1798	≥ 0.3 N/mm²

Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	approx. λ = 0.12 W/(mK)
Thermal resistance	DIN EN 12667	R = 0.049 (m²K)/W
Temperature resistance		-20 to +60° C

Type of screed or base - Measurement criteria

Screeds to receive applied flexible floorings		
	Maximum gap measured with a slip gauge	
BS 8203.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

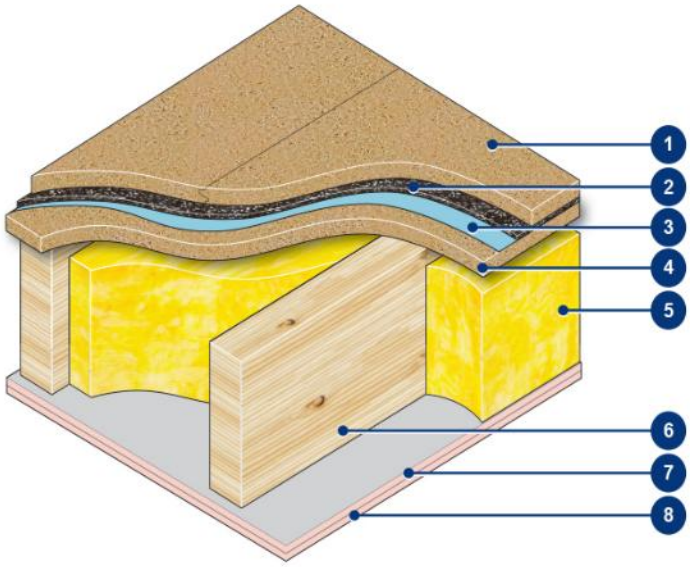
Screeds to receive toppings or in situ applied floorings		
	Maximum gap measured with a slip gauge	
BS 8204-1.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

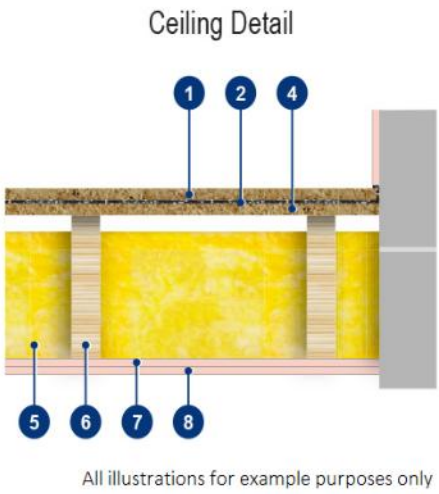
Screeds to receive adhesive fixed rigid tile applied floorings		
	Maximum gap measured with a slip gauge	
BS 5385-3.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

Screeds to receive timber flooring		
	Maximum gap measured with a slip gauge	
BS 8201 Localised variations in level should not exceed +/- 3mm from the mean when measured over a 2m-distance using a straight edge	SR1	3mm
	SR2	5mm
	SR3	10mm

Floor assemblies
Timber construction

Impact Sound Insulation (L_{nTw}) **49.5 dB** (mean average)
Airborne Sound Insulation ($D_{nTw} + C_{tr}$) **52.3 dB** (mean average)
Please refer to KR Associates Report Ref. KR02805 for full report





All illustrations for example purposes only

1 18mm T&G Chipboard or Carpet Floor Finish*
2 REGUPOL sonus 3912
3 Approved REGUPOL adhesive**
4 18mm T&G Chipboard mechanically fixed joists
5 9.8kg/m³ loft roll – 200mm thick
6 225mm deep x 50mm wide wooden joists at 400mm centres
7 1 layer of Fireline/Fireshield
8 1 layer of standard plasterboard

* Carpet can be laid directly over the REGUPOL sonus 3912 and can either be bonded directly to the REGUPOL sonus 3912 or installed in the same manner as a standard carpet installation.
** Please contact CMS Danskin Acoustics for advice on specific adhesive type.

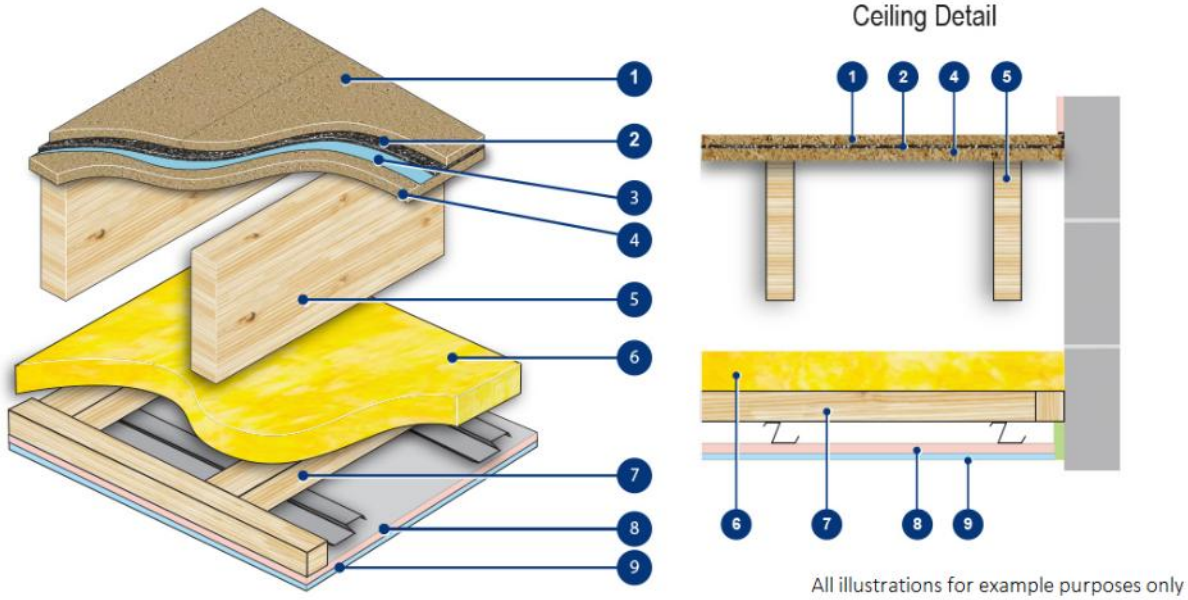
Floor assemblies

Timber construction with suspended ceiling

Impact Sound Insulation (L_{nTw}) **52 dB** (mean average)

Airborne Sound Insulation ($D_{nTw} + C_{tr}$) **53 dB** (mean average)

Please refer to Pace Report Ref. PAC-07-0127-RP1 for full report



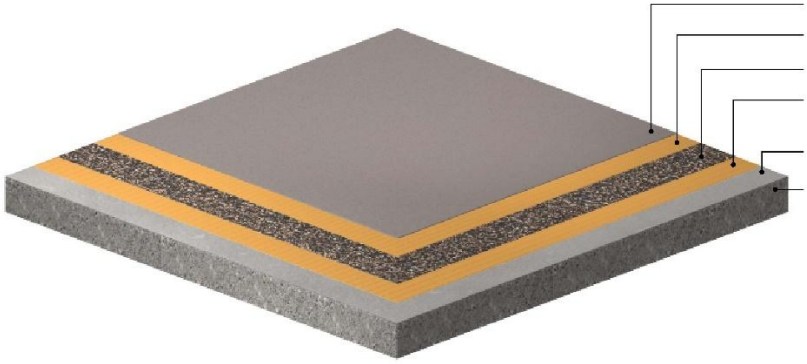
All illustrations for example purposes only

1 18mm T&G Chipboard or Carpet Floor Finish*
2 REGUPOL sonus 3912
3 Approved REGUPOL adhesive**
4 22mm Chipboard
5 250mm deep x 50mm wide joists
6 Minimum 75mm mineral wool min. 45kg/m³
7 Suspended 75mm timber frame ceiling on resilient bar
8 1 layer of 19mm Gyproc Plank
9 1 layer of 12.5mm SoundBloc

* Carpet can be laid directly over the REGUPOL sonus 3912 and can either be bonded directly to the REGUPOL sonus 3912 or installed in the same manner as a standard carpet installation

** Please contact CMS Danskin Acoustics for advice on specific adhesive type

Installation Examples



[1] Please contact CMS Danskin for advice on specific adhesive type.

[2] If moisture exceeds required levels.

Installation Examples

[1] Only if instructed by the flooring manufacturer.
[2] Please contact CMS Danskin for advice on specific adhesive type.
[3] If moisture exceeds required levels.

Installation

Full installation guidelines are available on request. However, key points to observe are:

• Area of installation must be dry, dirt and dust free and weather tight.
If over 75% RH seal use **REGUPOL barrier 99-201**. To determine RH please use a Hygrometer.

• **REGUPOL sonus 3912** should be unwound and left for a minimum 8 hours or ideally overnight at the place where it is to be installed, to allow for any potential shrinkage.

• The subfloor must be sound, smooth and dry. A self-levelling compound may be required to achieve the desired 'SR' value (only applicable for concrete subfloors).

• **REGUPOL sonus 3912** acoustic underlays can be easily installed providing the CMS Danskin Acoustics installation guidelines are followed at all times.

• When bonding to bare concrete a suitable concrete sealer is recommended to ensure maximum adhesive coverage and bond strength.

• When installing timber flooring over **REGUPOL sonus 3912** always use a flanking band around the perimeter to reduce impact transmissions into walls.

• When installing engineered wood leave at least a 3mm gap around the perimeter which should be filled with a flexible sealant.

REGUPOL sonus 3912 must be stored indoors. At no time must the **REGUPOL sonus 3912** be exposed to the elements of the weather. **REGUPOL sonus 3912** must always be kept dry, otherwise moisture will build up in the material and will subsequently make bonding to the subfloor very difficult. Moisture will also cause the material to curl and ripple at the edges once unrolled.
It is recommended that the polythene packaging be removed in the area where it shall be applied.

NBS
- Regupol products are listed by CMS Danskin Acoustics on NBS Source.

General Storage and Handling
- keep the product dry and undercover.
- suitable handling equipment will be required for bulky products or pallets.
- DO NOT stack products or pallets as these will become unstable.

Installation
- Separate Installation guidelines by final floor finish are available to request.

Operation
- The product is intended to be static post installation. There is no operator involvement in its use.

Maintenance
- The products intended use and design, along with its often-inaccessible location post construction, means there are no maintenance requirements.

Health & Safety
- follow appropriate site material handling methods.
- when used with adhesives read and implement all Safety Data Sheet recommendations.
- as an article there is no requirement for a Safety Data Sheet.

Packaging & Product Disposal
- pallets can be readily re-used.
- pallet wrap / covers should be placed in an appropriate waste stream.
- the product remains in the construction until refurbishment or demolition as such the project lead should apply the contemporary national and local regulations for waste bearing in mind site and installation contaminants.

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 themself 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.*