

# TECHNICAL DATA

## REGUPOL COMFORT 5



### Product

Impact sound insulating underlayment for various floor structures under screed beds and floating floors with a maximum traffic load  $\leq 5 \text{ kN/m}^2$ , CE certified.

### Material

PUR-bonded elastomers

### Weight

5.3 kg/sheet –  $2 \text{ kg/m}^2$

### Dimensions

Length: 2,250 mm, Width: 1,150 mm, Thickness: 5 mm

### Applications

Under screed beds and floating floors for both residential and commercial use, traffic load  $\leq 5 \text{ kN/m}^2$ , e. g. floor renovations, new buildings, reconstructions of apartments, commercial buildings or hotels.

### Certification

European Technical Assessment ETA-17/1030

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REGUPOL comfort 5 is Cradle to Cradle Certified® at the Bronze level.

Acoustical Performance*	Standard	Result	Comment
Under cement screed: 55 mm cement screed, <b>REGUPOL comfort 5</b> , 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 20 \text{ dB}$	Test report PB 4.2/15-105-2
Under RenoScreed®: 35 mm RenoScreed®, <b>REGUPOL comfort 5</b> , 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 20 \text{ dB}$	Test report PB 4.2/16-088-1

\*Assembly from top to bottom

Material properties	Standard	Result
Maximum traffic load		$\leq 5 \text{ kN/m}^2$
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 110 \text{ MN/m}^3$
Compressibility	DIN EN 12431	$c \leq 1 \text{ mm}$

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

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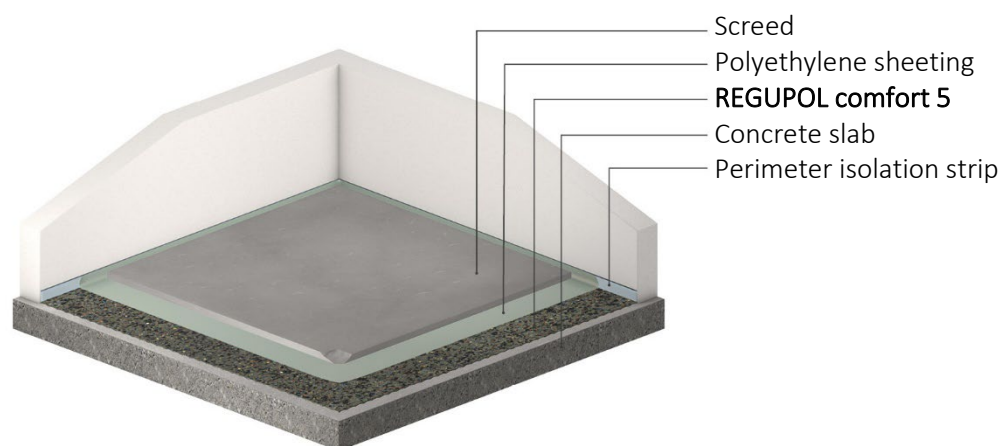


Thermal behaviour	Standard	Result	Comment
Thermal conductivity	DIN EN 12667	$\lambda = 0.06 \text{ W/(mK)}$	
Thermal resistance	DIN EN 12667	$R = 0.083 \text{ (m}^2\text{K)/W}$	
Temperature resistance		-20 to +60° C	
Deformation under specified compressive load and temperature conditions; Difference of relative deformations $\epsilon_1$ and $\epsilon_2$ of Level A: 23 $\pm$ 5°C / 48 $\pm$ 1 h Level B: 35 $\pm$ 1°C / 48 $\pm$ 1 h	DIN EN 1605	$\Delta \epsilon \leq 5,0 \%$	Suitable for floor heating systems

Moisture behaviour	Standard	Result	Comment
Water vapour permeability	DIN EN ISO 12572	$S_d = 0.01875 \text{ [m]}$	Diffusion equivalent air layer thickness
		$\mu = 3.75 \text{ [-]}$	Diffusion resistance factor, Material is open for diffusion
Sensitivity to moisture		To be protected from moisture during storage, transport and installation	

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

### Floor Assembly



For more assemblies and test reports, please visit [www.regupol.com](http://www.regupol.com)