

TECHNICAL DATA

REGUPOL COMFORT 12



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 as per European Technical Assessment



Material

- PUR-bonded elastomers
- Dimpled profile on the underside

Weight

3.0 kg/m²

Dimensions

Length: 9,300 mm, Width: 1,150 mm, Thickness: 12 mm



Applications

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

Certification

European Technical Assessment ETA-17/1030

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Acoustical Performance*	Standard	Result	Comment
Reference ceiling: Cross-laminated-timber (CLT) 160 mm	DIN EN ISO 10140-3 DIN EN ISO 717-2	$L_{n,w} (C_i) = 86 (-6) \text{ dB}$ $C_{1,50-2500} = -6 \text{ dB}$	Test report PB 4.2/16-252-24 &
	DIN EN ISO 10140-2 DIN EN ISO 717-1	$R_w (C) = 39 (-1) \text{ dB}$ $C_{50-5000} = 0 \text{ dB}$	PB 4.2/16-252-25
Under cement screed: 45 mm cement screed, REGUPOL comfort 12 , REGUPOL comfort S1 (100mm levelling fill), 160 mm CLT ceiling	DIN EN ISO 10140-3 DIN EN ISO 717-2	$L_{n,w} (C_i) = 50 (-2) \text{ dB}$ $C_{1,50-2500} = 3 \text{ dB}$	Test report PB 4.2/16-252-30 &
	DIN EN ISO 10140-2 DIN EN ISO 717-1	$R_w (C) = 70 (-2) \text{ dB}$ $C_{50-5000} = -4 \text{ dB}$	PB 4.2/16-252-31
Under OSB sheathing: 22 mm OSB sheathing, REGUPOL comfort 12 , REGUPOL comfort S1 (100mm levelling fill), 160 mm CLT ceiling	DIN EN ISO 10140-3 DIN EN ISO 717-2	$L_{n,w} (C_i) = 46 (1) \text{ dB}$ $C_{1,50-2500} = 7 \text{ dB}$	Test report PB 4.2/16-252-32 &
	DIN EN ISO 10140-2 DIN EN ISO 717-1	$R_w (C) = 70 (-5) \text{ dB}$ $C_{50-5000} = -9 \text{ dB}$	PB 4.2/16-252-33

*Assembly from top to bottom

Material properties	Standard	Result
Maximum surface load		$\leq 5 \text{ kN/m}^2$
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 10 \text{ MN/m}^3$
Compressibility	DIN EN 12431	$c \leq 2 \text{ mm}$

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

Thermal behaviour	Standard	Result	Comment
Thermal conductivity	DIN EN 12667	$\lambda = 0.06 \text{ W/(mK)}$	
Thermal resistance	DIN EN 12667	$R = 0.133 \text{ (m}^2\text{K)/W}$	
Temperature resistance		-20 to +60° C	
Deformation under specified compressive load and temperature conditions; Difference of relative deformations ϵ_1 and ϵ_2 of Level A: 23 ±5°C / 48 ±1 h Level B: 35 ±1°C / 48 ±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	$S_d = 0.03 \text{ [m]}$	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

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Floor assembly example



For more assemblies and test reports, please visit www.regupol.com