

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 European Technical Assessment ETA-17/1030.



Material

- PUR-bonded elastomers
- Dimpled profile on the underside

Weight

36.5 kg/roll – 3 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.

| Acoustical Performance* | Standard | Result | Comment |
|---|--|--|-----------------------------------|
| Reference ceiling: | DIN EN ISO 10140-3 | $L_{n,w} (C_i) = 86 (-6) \text{ dB}$ | Test report |
| Cross-laminated-timber (CLT) 160 mm | DIN EN ISO 717-2 | $C_{1,50-2500} = -6 \text{ dB}$ | PB 4.2/16-252-24 & |
| | DIN EN ISO 10140-2 | $R_w (C) = 39 (-1) \text{ dB}$ | PB 4.2/16-252-25 |
| | DIN EN ISO 717-1 | $C_{50-5000} = 0 \text{ dB}$ | |
| 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 | $c \leq 2 \text{ mm}$ |

| 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 | $R = 0.133 \text{ (m}^2\text{K)/W}$ | |
| 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 |

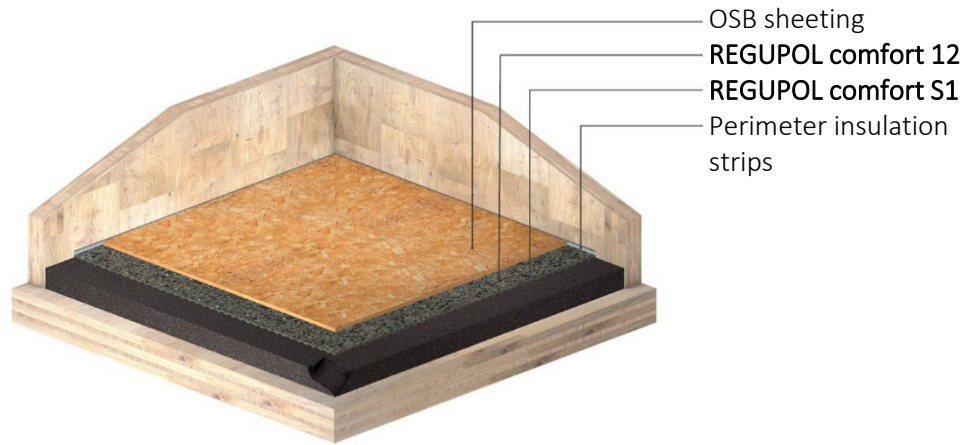
| Moisture behaviour | Standard | Result | Comment |
|---------------------------|------------------|--|--|
| Water vapour permeability | DIN EN ISO 12572 | $S_d = 0.03 \text{ [m]}$ | Diffusion equivalent air layer thickness |
| | | $\mu = 3.75 \text{ [-]}$ | Diffusion resistance factor, Material is 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