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 ≤ 5 kN/m², 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 kN/m², e. g. floor renovations, new buildings, reconstructions of apartments, commercial buildings or hotels.

**Certification**
European Technical Assessment ETA-17/1030

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

*Assembly from top to bottom

| **Material properties** | **Standard** | **Result** |
|---|---|---|
| Maximum surface load | | ≤ 5 kN/m² |
| Mean dynamic stiffness value | DIN EN 29052-1 | $s'_t$ ≤ 10 MN/m³ |
| Compressibility | DIN EN 12431 | c ≤ 2 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 W/(mK) | |
| Thermal resistance | DIN EN 12667 | R = 0.133 ($m^2$K)/W | |
| Temperature resistance | | -20 to +60° C | |
| Deformation under specified compressive load and temperature conditions; Difference of relative deformations $\varepsilon_1$ and $\varepsilon_2$ of Level A: 23 ±5°C / 48 ±1 h Level B: 35 ±1°C / 48 ±1 h | DIN EN 1605 | $\Delta \varepsilon \leq$ 5,0 % | Suitable for floor heating systems |

| Moisture behaviour | Standard | Result | Comment |
|---|---|---|---|
| Water vapour permeability | DIN EN ISO 12572 | Sd = 0.03 [m] | Diffusion equivalent air layer thickness |
| | | $\mu$ = 3.75 [-] | 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