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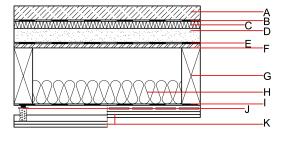
gdrnxa11b-02 4/29/24 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa11b-02

intermediate floor, timber frame construction, suspended, wet, with filling, other surface

Performance rating

| Fire protection performance Classified by HFA | REI | 60 |
|---|---|---------------------------------------|
| Thermal performance | U Diffusion | 0.25 W∕(m ² K) suitable |
| Calculated by HFA | | |
| Acoustic performance | R _w (C;C _{tr}) L _{n,w} (C _l) | 80(-7;-16) dB 39(4) |
| Assessed by HFA | | |
| Mass per unit area | m | 215.50 kg/m ² |



Calculation based on gypsum plaster board type DF

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

| Thickness | Building material | Thermal per | formance | | | Reaction to fire |
|-----------|--|-------------|-------------|------|-------|------------------|
| | | λ | µ min – max | ρ | с | EN |
| 60.0 | cement screed or anhydrite screed | 1.330 | 50 - 100 | 2500 | 1.080 | |
| | plastic separation layer | 0.200 | 100000 | 1400 | 1.400 | E |
| 30.0 | impact sound absorbing subflooring MW-T [s' = 10 MN/m ³] | 0.033 | 1 | 70 | 1.030 | A1 |
| | no fill line split m'=90 kg/m² | | | | | |
| | trickling protection | | | | | E |
| 18.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| 240.0 | (80⁄; e=625) | 0.120 | 50 | 450 | 1.600 | D |
| 100.0 | mineral wool [038; ≥30; ≥1000°C] | 0.038 | 1 | 30 | 1.030 | A1 |
| | trickling protection | | | | | E |
| 60.0 | acoustic direct hanger decoupled with CD-profile (a=400) | 0.156 | | | | |
| 25.0 | gypsum plaster board type DF | 0.250 | 10 | 800 | 1.050 | A2 |
| 25.0 | gypsum fibre board | 0.320 | 21 | 1000 | 1.100 | A2 |

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

48.5

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Designation: Last updated: Source: Editor: gdrnxa11b-02 4/29/24 Holzforschung Austria HFA, SP

Details of sustainability rating

Database ecoinvent

| Lifecycle | GWP | AP | EP | ODP | POCP | |
|-----------------------|--------------------------|--------------------------|--------------------------|---------------|---------------|---------------|
| (Phases) | [kg CO ₂ -e.] | [kg SO ₂ -e.] | [kg PO ₄ -e.] | [kg R11-e.] | [kg Ethen-e.] | |
| A1 - A3 | | 0.201 | 0.096 | 3,50E-6 | 0.039 | |
| | | | | | | |
| | | | | | | |
| Lifecycle | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| Lifecycle (Phases) | PERE [MJ] | PERM [MJ] | PERT [MJ] | PENRE [MJ] | PENRM [MJ] | PENRT [MJ] |

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.