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Designation: Last updated: Source: Editor: gdrnxa08b-07 8/2/23 Holzforschung Austria HFA, SP

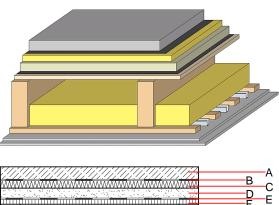
Intermediate floor - gdrnxa08b-07

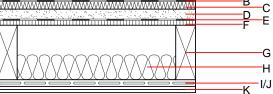
intermediate floor, timber frame construction, suspended, wet, with filling, other surface

Performance rating

| Fire protection performance | REI | 60 |
|--|---|------------------------------------|
| maximum span = 5 m; m Classified by HFA | aximum load E _{d,fi} = 3, | 66 kN∕m² |
| Thermal performance | U Diffusion | 0.27 W∕(m ² K) suitable |
| energy storage capacity p Calculated by HFA | er unit area above: 10 | 04,8 kg∕m² |
| Acoustic performance | R _w (C;C _{tr}) L _{n,w} (C _l) | 70(-1;-6) dB 43(1) |
| Mass per unit area | m sum plaster board typ | 224.30 kg/m ² |

Calculation based on gypsum plaster board type DF





Note: e=625;

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

36.0

| | Thickness | Building material | Thermal per | formance | | | Reaction to fire |
|---|-----------|--|-------------|-------------|------|-------|------------------|
| | | | λ | µ min – max | ρ | с | EN |
| | 50.0 | cement screed or anhydrite screed | 1.330 | 50 - 100 | 2000 | 1.080 | A1 |
| | | plastic separation layer | 0.200 | 100000 | 1400 | 1.400 | E |
| | 30.0 | impact sound absorbing subflooring EPS-T [s' =11 MN/m ³] | 0.044 | 20 - 50 | | 1.450 | E |
|) | 40.0 | fill | 0.700 | 1 | 1800 | 1.000 | A1 |
| | | trickling protection | | | | | E |
| | 19.0 | particleboard | 0.130 | 50 - 100 | 700 | 1.700 | D |
| | 220.0 | construction timber (80/; $e=*$) | 0.120 | 50 | 450 | 1.600 | D |
| | 100.0 | mineral wool [040; ≥16; <1000 °C] | 0.040 | 1 | 16 | 1.030 | A1 |
| | 24.0 | spruce wood cladding with spacing of cladding boards(24/100); a=400 | 0.120 | 50 | 450 | 1.600 | D |
| | 27.0 | resilient channel placed between cladding with spacing | 0.156 | | | | |
| | 25.0 | gypsum plaster board type DF (2x12,5 mm) or | 0.250 | 10 | 800 | 1.050 | A2 |
| | 25.0 | gypsum fibre board (2x12,5 mm) | 0.320 | 21 | 1000 | 1.100 | A2 |

Sustainability rating (per m²)

Database ecoinvent

Calculated by HFA

OI3_{Kon}

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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 | | 0.133 | 0.064 | 2,32E-6 | 0.030 | |
| | | | | | | |
| Lifecycle | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| | FN 413 | [M] | [M] | [MJ] | [MJ] | [M] |
| (Phases) | [MJ] | נייין | [1413] | [] | | |

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