dataholz.eu

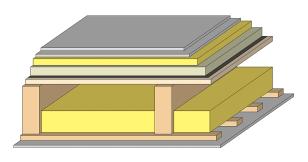
Performance rating

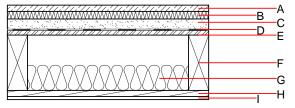
Designation: Last updated: Source: Editor: gdrtxn01a-03 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrtxn01a-03

intermediate floor, timber frame construction, not suspended, dry, with filling, other surface

| Performance rating | | |
|---|---|---------------------------------------|
| Fire protection performance | REI | 30 |
| maximum span = 5 m; max Classified by HFA | kimum load E _{d,fi} = 3,66 kN∕ | ′m² |
| Thermal performance | U Diffusion | 0.24 W∕(m ² K) suitable |
| Calculated by HFA | | |
| Acoustic performance | R _w (C;C _{tr}) L _{n,w} (C _l) | 63(-5;-12) dB 58(2) |
| Assessed by TGM | | |
| Mass per unit area Calculation based on GF | m | 137.30 kg/m ² |





Note: e=625;

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 |
| A | 25.0 | dry screed | 0.210 | 8 | 900 | 1.050 | A1 |
| В | 30.0 | impact sound absorbing subflooring MW-T | 0.035 | 1 | 68 | 1.030 | A1 |
| С | 40.0 | fill | 0.700 | 1 | 1800 | 1.000 | A1 |
| D | | trickling protection | | | | | E |
| E | 18.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| F | 220.0 | construction timber (80/; $e=*$) | 0.120 | 50 | 450 | 1.600 | D |
| G | 100.0 | mineral wool [035; 50; <1000°C] | 0.035 | 1 | 50 | 1.030 | A1 |
| Η | 24.0 | spruce wood cladding with spacing of cladding boards(24/100); a=400 | 0.120 | 50 | 450 | 1.600 | D |
| I | 12.5 | gypsum plaster board type DF or | 0.250 | 10 | 800 | 1.050 | A2 |
| | 12.5 | gypsum fibre board | 0.320 | 21 | 1000 | 1.100 | A2 |

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

38.9

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.

dataholz.eu

Designation: Last updated: Source: Editor: gdrtxn01a-03 8/2/23 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 | | 0.163 | 0.072 | 3,27E-6 | 0.026 | |
| | | | | | | |
| Lifecycle | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| (Phases) | [LM] | [LM] | [LM] | [LM] | [M] | [M] |
| (1114505) | | | | | | |

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.