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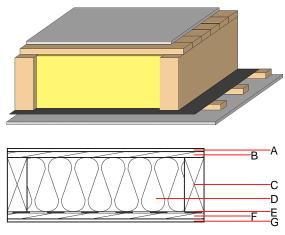
Designation: Last updated: Source: Editor:

ddrtxn05a-06 8/2/23 Holzforschung Austria HFA, SP

Floor towards attic (uninhabitable) - ddrtxn05a-06

floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

| Performance rating |] | | |
|---|---|---------------------------------------|--|
| Fire protection performance | REI | 30 | |
| maximum span = 5 m; ma Classified by HFA | ximum load E _{d,fi} = 3, | 66 kN∕m² | |
| Thermal performance | U Diffusion | 0.22 W∕(m ² K) suitable | |
| Calculated by HFA | | | |
| Acoustic performance | R _w (C;C _{tr}) L _{n,w} (C _l) | 46(-4;-9) dB | |
| Assessed by TGM | | | |
| Mass per unit area | m | 52.30 kg/m ² | |
| Calculation based on GF | | | |
| | | | |



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 | Thermal performance | | | |
|---|-----------|---|-------------|---------------------|------|-------|----|
| | | | λ | µ min – max | ρ | с | EN |
| A | 12.5 | gypsum plaster board type DF or | 0.250 | 10 | 800 | 1.050 | A2 |
| A | 12.5 | gypsum fibre board | 0.320 | 21 | 1000 | 1.100 | A2 |
| В | 24.0 | planking spruce wood | 0.120 | 50 | 450 | 1.600 | D |
| С | 220.0 | spruce wood floor joists ($80/*$); e=* | 0.120 | 50 | 450 | 1.600 | D |
| D | 220.0 | sheep wool [0,041; R=16] | 0.041 | 1 | 16 | 1.720 | E |
| E | | vapour barrier sd≥ 6m | | | 1000 | | |
| F | 24.0 | spruce wood cladding with spacing of cladding boards(24/100); a=400 | 0.120 | 50 | 450 | 1.600 | D |
| G | 12.5 | gypsum plaster board type DF or | 0.250 | 10 | 800 | 1.050 | A2 |
| G | 12.5 | gypsum fibre board | 0.320 | 21 | 1000 | 1.100 | A2 |

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

9.4

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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 | | 0.055 | 0.024 | 1,45E-6 | 0.017 | |
| | | | | | | |
| Lifecycle | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| Lifecycle | | | | | | |
| (Phases) | [LM] | [MJ] | [LM] | [LM] | [MJ] | [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.