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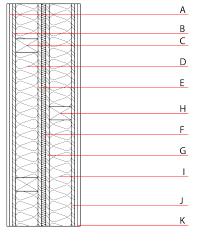
twrxx02b-01 8/2/23 Holzforschung Austria HFA, SP

Compartment wall - twrxxo02b-01

compartment wall, timber frame construction, without dry lining, double-layer, other surface

Performance rating

| Fire protection performance | REI | 90 |
|---|---|--|
| applies for each of the load maximum ceiling height = Classified by HFA | | r the overall structure EI 90; ad E _{d,fi} = 19,0 kN∕m |
| Thermal performance | U Diffusion | 0.13 W∕(m ² K) suitable |
| Calculated by HFA | | |
| Acoustic performance | R _w (C;C _{tr}) L _{n,w} (C _l) | 68(-4;-12) dB |
| frequency range 50-3500: Assessed by HFA | C ₅₀₋₃₅₀₀ -12 dB; C | _{tr 50-3500} -24 dB |
| Mass per unit area | m | 101.10 kg/m ² |



Note: C/H: staggered

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

| | Thickness | Building material | Thermal per | rformance | | | Reaction to fire |
|---|-----------|--|-------------|-------------|------|-------|------------------|
| | | | λ | µ min – max | ρ | с | EN |
| ٩ | 25.0 | gypsum plaster board type DF (2x12,5) or | 0.250 | 10 | 800 | 1.050 | A2 |
| ٩ | 25.0 | gypsum fibre board (2x12,5) | 0.320 | 21 | 1000 | 1.100 | A2 |
| 3 | 15.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| ; | 100.0 | construction timber ($60/; e=625$) | 0.120 | 50 | 450 | 1.600 | D |
|) | 100.0 | mineral wool [040; 30; ≥1000°C] | 0.040 | 1 | 30 | 1.030 | A1 |
| | 15.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| | 80.0 | impact sound absorbing subflooring MW 3-layers [100; 2x30mm s' =10 MN/m³, 1x20mm s' =14 MN/m³] | 0.035 | 1 | 100 | 1.030 | A2 |
| 5 | 15.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| ł | 100.0 | construction timber (60/; e=625) | 0.120 | 50 | 450 | 1.600 | D |
| | 100.0 | mineral wool [040; 30; ≥1000°C] | 0.040 | 1 | 30 | 1.030 | A1 |
| | 15.0 | OSB | 0.130 | 200 | 600 | 1.700 | D |
| | 25.0 | gypsum plaster board type DF (2x12,5) or | 0.250 | 10 | 800 | 1.050 | A2 |
| | 25.0 | gypsum fibre board (2x12,5) | 0.320 | 21 | 1000 | 1.100 | A2 |

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

60.4

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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 | | 0.280 | 0.091 | 3.62E-6 | 0.096 | |
| | | | | | | |
| | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| Lifecycle | FERE | 1 21000 | | 1 LINIL | | |
| (Phases) | [MJ] | [MJ] | [MJ] | [MJ] | [MJ] | [MJ] |

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