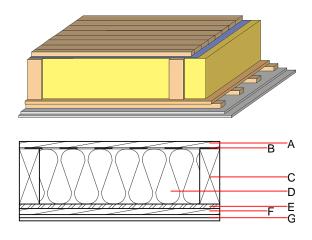
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Designation: Last updated: Source: Editor:

Floor towards attic (uninhabitable) - ddrtxn03b-04

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

| Performance rating                          | 3   |                                       |
|---|---|---------------------------------------|
| Fire protection performance                 | REI   | 60                                    |
| maximum span = 5 m; ma<br>Classified by HFA | ximum load E <sub>d,fi</sub> = 3,66 kN/                                   | ∕m²                                   |
| Thermal performance                         | U<br>Diffusion  | 0.19 W∕(m <sup>2</sup> K)<br>suitable |
| Calculated by HFA                           |   |                                       |
| Acoustic performance                        | R <sub>w</sub> (C;C <sub>tr</sub> )<br>L <sub>n,w</sub> (C <sub>l</sub> ) | 43(-2;-6) dB                          |
| Assessed by TGM                             |   |                                       |
| Mass per unit area                          | m   | 67.30 kg∕m²                           |
| Calculation based on gyps                   | sum plaster board type DF   |                                       |



ddrtxn03b-04

Holzforschung Austria

8/2/23

HFA, SP

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 | rformance   |      |       | Reaction to fire |
|----|-----------|--|-------------|-------------|------|-------|------------------|
|    |           |  | λ           | µ min – max | ρ    | с     | EN               |
| ١. | 24.0      | planking spruce wood   | 0.120       | 50          | 450  | 1.600 | D                |
| 3  |           | wind barrier   |             |             | 1000 |       |                  |
| 2  | 220.0     | construction timber (80/; $e=*$ )                                      | 0.120       | 50          | 450  | 1.600 | D                |
| )  | 220.0     | mineral wool [038; ≥33; ≥1000°C]                                       | 0.038       | 1           | 33   | 1.030 | A1               |
|    | 18.0      | OSB (sealed with airtight tape)  | 0.130       | 200         | 600  | 1.700 | D                |
|    | 24.0      | spruce wood cladding with spacing of cladding boards(24/100); a=400 $$ | 0.120       | 50          | 450  | 1.600 | D                |
|    | 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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

30.0

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### Details of sustainability rating

#### Database ecoinvent

| Lifecycle             | GWP                      | AP                       | EP                       | ODP           | POCP          |               |
|-----------------------|--------------------------|--------------------------|--------------------------|---------------|---------------|---------------|
| (Phases)              | [kg CO <sub>2</sub> -e.] | [kg SO <sub>2</sub> -e.] | [kg PO <sub>4</sub> -e.] | [kg R11-e.]   | [kg Ethen-e.] |               |
| A1 - A3               |                          | 0.158                    | 0.054                    | 1,98E-6       | 0.058         |               |
|                       |                          |                          |                          |               |               |               |
|                       |                          |                          |                          |               |               |               |
| Lifecycle             | PERE                     | PERM                     | PERT                     | PENRE         | PENRM         | PENRT         |
| Lifecycle<br>(Phases) | PERE<br>[MJ]             | PERM<br>[MJ]             | PERT<br>[MJ]             | PENRE<br>[MJ] | PENRM<br>[MJ] | PENRT<br>[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.