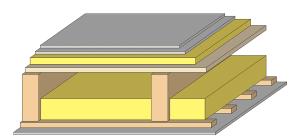
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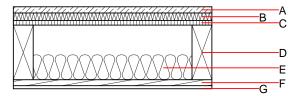
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### Intermediate floor - gdrtxn03a-03

intermediate floor, timber frame construction, not suspended, dry, without filling, other surface

| Performance rating                            |   |                                       |
|---|---|---------------------------------------|
| Fire protection performance                   | REI   | 30                                    |
| maximum span = 5 m; max<br>Classified by HFA  | kimum load E <sub>d,fi</sub> = 3,66 kN∕                                   | m²                                    |
| Thermal performance                           | U<br>Diffusion  | 0.25 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> ) | 51(-3;-10) dB<br>66(1)                |
| Assessed by TGM                               |   |                                       |
| Mass per unit area<br>Calculation based on GF | m   | 66.90 kg/m <sup>2</sup>               |





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               |
| <b>١</b> | 25.0      | dry screed  | 0.210       | 8           | 900  | 1.050 | A1               |
| :        | 30.0      | impact sound absorbing subflooring MW-T                                 | 0.035       | 1           | 68   | 1.030 | A1               |
| :        | 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 [035; 50; <1000 °C]  | 0.035       | 1           | 50   | 1.030 | A1               |
|          | 24.0      | spruce wood cladding with spacing of cladding boards( $24/100$ ); a=400 | 0.120       | 50          | 450  | 1.600 | D                |
|          | 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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

39.7

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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   |                          | 0.159                    | 0.072                    | 3,15E-6     | 0.028         |       |
|           |                          |                          |                          |             |               |       |
| Lifecycle | PERE                     | PERM                     | PERT                     | PENRE       | PENRM         | PENRT |
|           |                          |                          |                          |             |               |       |
| (Phases)  | [MJ]                     | [MJ]                     | [MJ]                     | [MJ]        | [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.