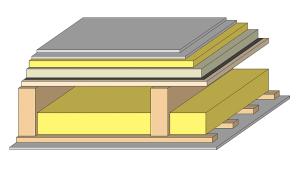
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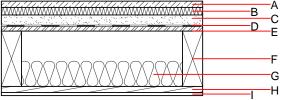
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### Intermediate floor - gdrtxn01a-06

intermediate floor, timber frame construction, not suspended, dry, with 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  | 0.28 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>I</sub> ) | 63(-6;-13) dB<br>58(3)                |
| Assessed by TGM                               |   |                                       |
| Mass per unit area<br>Calculation based on GF | m   | 134.30 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 | 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     | sheep wool [0,041; R=16]  | 0.041       | 1           | 16   | 1.720 | E                |
| Н | 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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

23.8

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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   |                          | 0.103                    | 0.044                    | 2,33E-6     | 0.020         |       |
|           |                          |                          |                          |             |               |       |
| Lifecycle | PERE                     | PERM                     | PERT                     | PENRE       | PENRM         | PENRT |
| (Phases)  | [LM]                     | [MJ]                     | [MJ]                     | [LM]        | [MJ]          | [M]   |
| (1110303) |                          |                          |                          |             |               |       |

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