

# Ol3 Statement

Result sheet building – new building

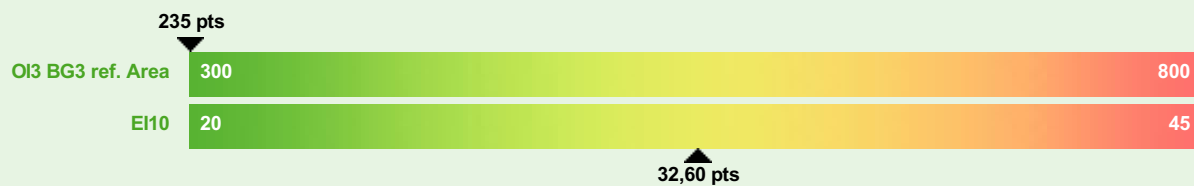


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Ökobilanz für Gebäude

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## building overall

|                            |   |                                   |   |
|----------------------------|---|-----------------------------------|---|
| <b>*Ol3 BG3 ref. Area:</b> | 235 points  | <b>GFA:</b>                       | 3.000 m <sup>2</sup>  |
| <b>EI10:</b>               | 32,60 points  | <b>ref. area<sub>Ol</sub>:</b>    | 3.000 m <sup>2</sup>  |
| <b>PENRT:</b>              | 3.142 MJ / (m <sup>2</sup> ref. area <sub>Ol</sub> )                      | <b>catalog of LCA indicators:</b> | IBO benchmarks 2012   |
| <b>GWP-total:</b>          | 221 kg CO <sub>2</sub> equ. / (m <sup>2</sup> ref. area <sub>Ol</sub> )   | <b>useful life considered:</b>    | yes, replacements rates with whole numbers (according to EN 15804 standard) |
| <b>AP:</b>                 | 0,702 kg SO <sub>2</sub> equ. / (m <sup>2</sup> ref. area <sub>Ol</sub> ) | <b>study period:</b>              | 100 years   |
| <b>Guide version Ol3:</b>  | V4.0 (September 2018)   | <b>service life catalog:</b>      | 2018  |
| <b>Guide version EI10:</b> | V2, 2018  |                                   |   |



\* Taking into account the manufacturing phase (A1-A3) and the use phase (B1-B4) of EN 15804

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## components from the energy certificate

| quantity                | building element | ΔOl3           | PENRT        | GWP-total               | AP                      | EI <sub>KON</sub>  |
|-------------------------|------------------|----------------|--------------|-------------------------|-------------------------|--------------------|
|                         |                  | BG3, ref. Area | MJ           | kg CO <sub>2</sub> equ. | kg SO <sub>2</sub> equ. | per m <sup>2</sup> |
| 1.442,00 m <sup>2</sup> | F1_F1-8_in       | 75             | 993          | 65                      | 0,231                   | 2,36               |
| 194,00 m <sup>2</sup>   | F2_F1-8_ex       | 4              | 51           | 4                       | 0,014                   | 0,46               |
| 268,00 m <sup>2</sup>   | R1               | 18             | 268          | 16                      | 0,048                   | 4,17               |
| 1.132,00 m <sup>2</sup> | W1_F1-8_N_ex     | 52             | 745          | 43                      | 0,150                   | 3,66               |
| 537,00 m <sup>2</sup>   | W2_F1-8_L_in     | 33             | 456          | 29                      | 0,097                   | 3,66               |
| <b>sum</b>              |                  |                | <b>2.513</b> | <b>157</b>              | <b>0,539</b>            |                    |

## interior walls

| quantity                | building element | ΔOl3           | PENRT      | GWP-total               | AP                      | EI <sub>KON</sub>  |
|-------------------------|------------------|----------------|------------|-------------------------|-------------------------|--------------------|
|                         |                  | BG3, ref. Area | MJ         | kg CO <sub>2</sub> equ. | kg SO <sub>2</sub> equ. | per m <sup>2</sup> |
| 2.142,00 m <sup>2</sup> | B1               | 26             | 314        | 30,7                    | 0,081                   | 0,12               |
| 700,00 m <sup>2</sup>   | C1               | 7              | 82         | 8,1                     | 0,021                   | 0,09               |
| 538,00 m <sup>2</sup>   | S1               | 3              | 40         | 3,9                     | 0,010                   | 0,06               |
| 1.201,00 m <sup>2</sup> | W3_F1-8_N_in     | 16             | 185        | 20,4                    | 0,049                   | 0,34               |
| <b>sum</b>              |                  |                | <b>621</b> | <b>63,0</b>             | <b>0,161</b>            |                    |

## old component type

| quantity             | building element | ΔOl3           | PENRT       | GWP-total               | AP                      | EI <sub>KON</sub>  |
|----------------------|------------------|----------------|-------------|-------------------------|-------------------------|--------------------|
|                      |                  | BG3, ref. Area | MJ          | kg CO <sub>2</sub> equ. | kg SO <sub>2</sub> equ. | per m <sup>2</sup> |
| 30,00 m <sup>2</sup> | R2               | 1              | 7,48        | 0,768                   | 0,00196                 | 0,45               |
| <b>sum</b>           |                  |                | <b>7,48</b> | <b>0,768</b>            | <b>0,00196</b>          |                    |

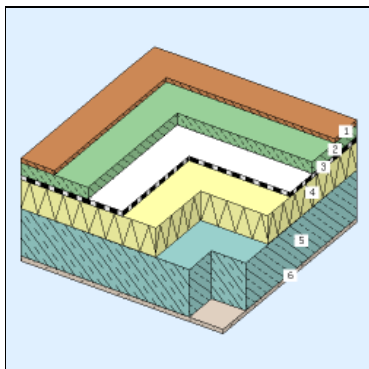
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## graphic details of solid and transparent building elements

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### F1\_F1-8\_in (components from the energy certificate, BG3)



**$\Sigma\Delta OI3$ :** 155 points/m<sup>2</sup>

**$E_{kON}$ :** 2,36 points/m<sup>2</sup>

**mass:** 586,5 kg/m<sup>2</sup>

**PENRT:** 2.066 MJ/m<sup>2</sup>

**GWP-total:** 134 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP:** 0,480 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life:** yes, replacements rates with whole numbers (according to EN 15804 standard)

| no. layer  | d <sub>cm</sub> | Useful life >b | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|-----------------|----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Trittschalldämmung (Isover Akustic EP3) (Timber (525 kg/m <sup>3</sup> - e.g. larch) - rough, technically drier) | 1,30            | 50             | 1                                  | 1                           | 1                         |
| 2 Rigidur Estrichelement (Cement and cement flowing screed (1800 kg/m <sup>3</sup> ))                              | 5,00            | 50             | 16                                 | 3                           | 4                         |
| 3 Rieselschutz (Sisalex™ 30)   | 0,01            | 150            | 0                                  | 3                           | 3                         |
| 4 Brettsperholz BBS (5-lagig) (EPS-F grey/black (by 2010) (16.5 kg/m <sup>3</sup> ))                               | 12,00           | 35             | 36                                 | 5                           | 4                         |
| 5 schallentkoppelte U-Direktabhängiger mit Rigips CD Profil / Mineralwolle (z. B. Isover Trennwand Filz)           | 20,00           | 100            | 63                                 | 2                           | 2                         |
| 6 Silicate plaster with synthetic resin additive, reinforced   | 0,70            | 35             | 38                                 | 2                           | 5                         |
| <b>building element</b>  | <b>39,01</b>    |                |                                    |                             |                           |

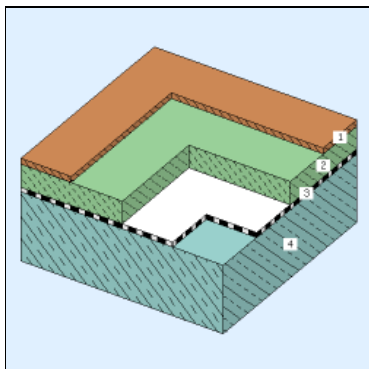
**annotations:** Importiert am 06. 03. 2022: Bauteil "DE06e\_" aus Gebäude ""

<sup>1</sup> self-entered value <sup>2</sup> layer is OI-relevant from BG1

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### F2\_F1-8\_ex (components from the energy certificate, BG3)



**$\Sigma\Delta OI3$ :** 66 points/m<sup>2</sup>

**$E_{kON}$ :** 0,46 points/m<sup>2</sup>

**mass:** 453,2 kg/m<sup>2</sup>

**PENRT:** 789 MJ/m<sup>2</sup>

**GWP-total:** 66,7 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP:** 0,211 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life:** yes, replacements rates with whole numbers (according to EN 15804 standard)

| no. layer  | d <sub>cm</sub> | Useful life >b | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|-----------------|----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Trittschalldämmung (Isover Akustic EP3) (Timber (525 kg/m <sup>3</sup> - e.g. larch) - rough, technically drier) | 1,30            | 50             | 1                                  | 1                           | 1                         |
| 2 Splittschüttung gebunden (Cement and cement flowing screed (1800 kg/m <sup>3</sup> ))                            | 5,00            | 50             | 16                                 | 3                           | 4                         |
| 3 Rieselschutz (Sisalex™ 30)   | 0,01            | 150            | 0                                  | 3                           | 3                         |
| 4 schallentkoppelte U-Direktabhängiger mit Rigips CD Profil / Mineralwolle (z. B. Isover Trennwand Filz)           | 15,00           | 100            | 47                                 | 2                           | 2                         |
| <b>building element</b>  | <b>21,31</b>    |                |                                    |                             |                           |

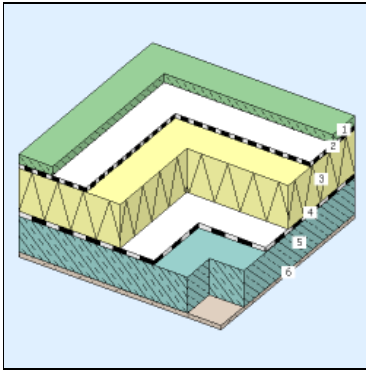
**annotations:** Importiert am 06. 03. 2022: Bauteil "DE06e\_" aus Gebäude ""

<sup>1</sup> self-entered value <sup>2</sup> layer is OI-relevant from BG1

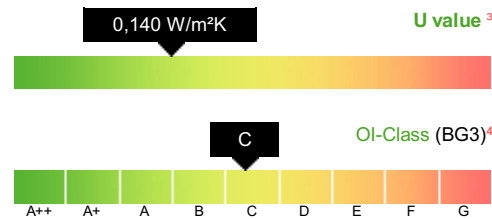
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### R1 (components from the energy certificate, BG3)



$\Sigma \Delta OI3$ : 200 points/m<sup>2</sup>  
 $E_{l,KON}$ : 4,17 points/m<sup>2</sup>  
 mass: 583,6 kg/m<sup>2</sup>  
 $PENRT$ : 3.005 MJ/m<sup>2</sup>  
 $GWP$ -total: 174 kg CO<sub>2</sub> equ./m<sup>2</sup>  
 $AP$ : 0,535 kg SO<sub>2</sub> equ./m<sup>2</sup>  
 service life: yes, replacements rates with whole numbers (according to EN 15804 standard)



| no. layer  | d<br>cm      | Useful life >b  | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|--------------|-----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Cement and cement flowing screed (1800 kg/m <sup>3</sup> )   | 5,00         | 50              | 16                                 | 3                           | 4                         |
| 2 gewebearmierte Kunststoff-Schweißbahn (>1,7 kg/m <sup>2</sup> ) (Polyethylene (PE) sealing sheeting)   | 0,25         | 25              | <sup>1</sup> 37                    | 3                           | 4                         |
| 3 Expandiertes Polystyrol (Gefälledämmung) (EPS-F grey/black (by 2010) (16.5 kg/m <sup>3</sup> ))        | 24,00        | 35              | 71                                 | 5                           | 4                         |
| 4 Abdichtungsbahn (sd=220m) (Bauder TEC KSD, Bauder TEC KSD DUO)   | 0,15         | <sup>2</sup> 50 | <sup>1</sup> 8                     | 3                           | 5                         |
| 5 Brettsperrholz BBS (5-lagig) (Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%) | 20,00        | 100             | 63                                 | 2                           | 2                         |
| 6 Brettsperrholz BBS (5-lagig) (Normal plastering mortar GP lime (1500 kg/m <sup>3</sup> ))              | 0,70         | 35              | 5                                  | 2                           | 3                         |
| <b>building element</b>  | <b>50,10</b> |                 |                                    |                             |                           |

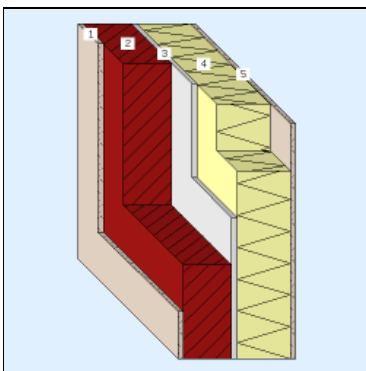
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<sup>1</sup> layer is OI-relevant from BG1 <sup>2</sup> self-entered value <sup>3</sup> U value (Heat transfer coefficient) calculated according to ÖNORM EN ISO 6946. <sup>4</sup> For the OI class, the U-value of the component is taken into account in addition to the ecological key figures

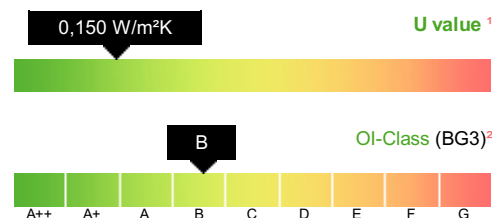
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### W1\_F1-8\_N\_ex (components from the energy certificate, BG3)



$\Sigma \Delta OI3$ : 138 points/m<sup>2</sup>  
 $E_{l,KON}$ : 3,66 points/m<sup>2</sup>  
 mass: 327,7 kg/m<sup>2</sup>  
 $PENRT$ : 1.974 MJ/m<sup>2</sup>  
 $GWP$ -total: 115 kg CO<sub>2</sub> equ./m<sup>2</sup>  
 $AP$ : 0,398 kg SO<sub>2</sub> equ./m<sup>2</sup>  
 service life: yes, replacements rates with whole numbers (according to EN 15804 standard)



| no. layer (from inside to outside)                           | d<br>cm      | Useful life >b | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|--------------|----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Normal plastering mortar GP lime (1500 kg/m <sup>3</sup> ) | 1,50         | 35             | 11                                 | 2                           | 3                         |
| 2 Hollow concrete blocks (1400 kg/m <sup>3</sup> )           | 20,00        | 100            | 17                                 | 2                           | 2                         |
| 3 Mineral adhesive   | 0,50         | 50             | 6                                  | 3                           | 5                         |
| 4 EPS-F grey/black (by 2010) (16.5 kg/m <sup>3</sup> )       | 22,00        | 35             | 65                                 | 5                           | 4                         |
| 5 Silicate plaster with synthetic resin additive, reinforced | 0,70         | 35             | 38                                 | 2                           | 5                         |
| <b>building element</b>                                      | <b>44,70</b> |                |                                    |                             |                           |

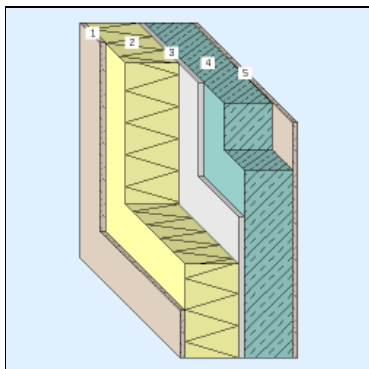
annotations: Importiert am 06. 03. 2022: Bauteil "AW 00a Betonhohlsteinmauerwerk mit Innen- und Außenputz (EPS)" aus Gebäude ""

<sup>1</sup> U value (Heat transfer coefficient) calculated according to ÖNORM EN ISO 6946. <sup>2</sup> For the OI class, the U-value of the component is taken into account in addition to the ecological key figures

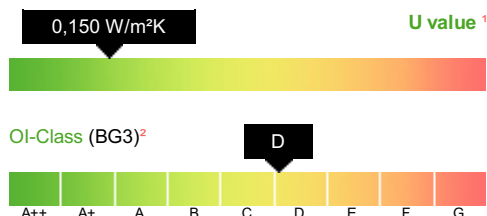
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### W2\_F1-8\_L\_in (components from the energy certificate, BG3)



$\Sigma \Delta OI3$ : 184 points/m<sup>2</sup>  
 $E_{l_{KON}}$ : 3,66 points/m<sup>2</sup>  
**mass**: 522,7 kg/m<sup>2</sup>  
**PENRT**: 2.547 MJ/m<sup>2</sup>  
**GWP-total**: 162 kg CO<sub>2</sub> equ./m<sup>2</sup>  
**AP**: 0,541 kg SO<sub>2</sub> equ./m<sup>2</sup>  
**service life**: yes, replacements rates with whole numbers (according to EN 15804 standard)



| no. layer (from inside to outside)   | d<br>cm      | Useful life >b | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|--------------|----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Silicate plaster with synthetic resin additive, reinforced               | 0,70         | 35             | 38                                 | 2                           | 5                         |
| 2 EPS-F grey/black (by 2010) (16.5 kg/m <sup>3</sup> )                     | 22,00        | 35             | 65                                 | 5                           | 4                         |
| 3 Mineral adhesive   | 0,50         | 50             | 6                                  | 3                           | 5                         |
| 4 Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%) | 20,00        | 100            | 63                                 | 2                           | 2                         |
| 5 Normal plastering mortar GP lime (1500 kg/m <sup>3</sup> )               | 1,50         | 35             | 11                                 | 2                           | 3                         |
| <b>building element</b>  | <b>44,70</b> |                |                                    |                             |                           |

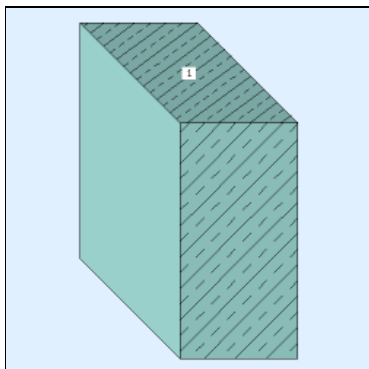
**annotations:** Importiert am 06. 03. 2022: Bauteil "AW 00a Betonhohlsteinmauerwerk mit Innen- und Außenputz (EPS)" aus Gebäude ""

<sup>1</sup> U value (Heat transfer coefficient) calculated according to ÖNORM EN ISO 6946. <sup>2</sup> For the OI class, the U-value of the component is taken into account in addition to the ecological key figures

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### B1 (interior walls, BG3)



$\Sigma \Delta OI3$ : 37 points/m<sup>2</sup>  
 $E_{l_{KON}}$ : 0,12 points/m<sup>2</sup>  
**mass**: 277,9 kg/m<sup>2</sup>  
**PENRT**: 439 MJ/m<sup>2</sup>  
**GWP-total**: 43,0 kg CO<sub>2</sub> equ./m<sup>2</sup>  
**AP**: 0,114 kg SO<sub>2</sub> equ./m<sup>2</sup>  
**service life**: yes, replacements rates with whole numbers (according to EN 15804 standard)

| no. layer (from inside to outside)  | d<br>cm      | Useful life >b | $\Delta OI3$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|---|--------------|----------------|------------------------------------|-----------------------------|---------------------------|
| 1 Brettsperrholz BBS (3-lagig) (Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%)) | 11,70        | 100            | <sup>1</sup> 37                    | 2                           | 2                         |
| <b>building element</b>   | <b>11,70</b> |                |                                    |                             |                           |

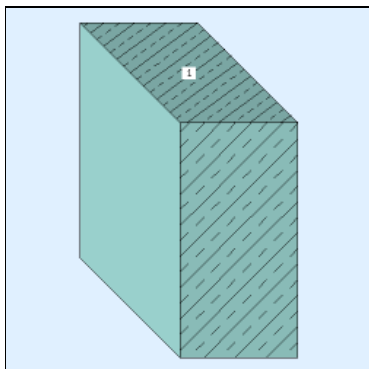
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<sup>1</sup> layer is OI-relevant from BG3

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### C1 (interior walls, BG3)



**$\Sigma\Delta\text{OI3}$ :** 30 points/m<sup>2</sup>

**$\text{EI}_{\text{KON}}$ :** 0,09 points/m<sup>2</sup>

**mass:** 223,3 kg/m<sup>2</sup>

**PENRT:** 353 MJ/m<sup>2</sup>

**GWP-total:** 34,5 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP:** 0,0913 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life:** yes, replacements rates with whole numbers (according to EN 15804 standard)

| no.                     | layer (from inside to outside)  | d<br>cm     | Useful life >b | $\Delta\text{OI3}$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|-------------------------|---|-------------|----------------|--|-----------------------------|---------------------------|
| 1                       | Brettsper Holz BBS (3-lagig) (Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%)) | 9,40        | 100            | <sup>1</sup> 30                          | 2                           | 2                         |
| <b>building element</b> |   | <b>9,40</b> |                |  |                             |                           |

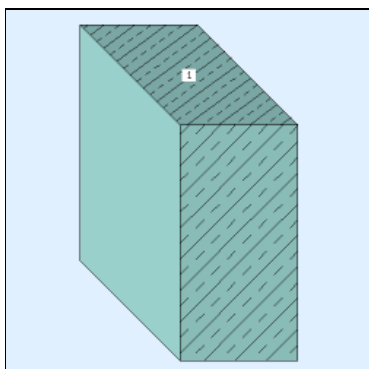
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<sup>1</sup> layer is OI-relevant from BG3

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### S1 (interior walls, BG3)



**$\Sigma\Delta\text{OI3}$ :** 19 points/m<sup>2</sup>

**$\text{EI}_{\text{KON}}$ :** 0,06 points/m<sup>2</sup>

**mass:** 140,1 kg/m<sup>2</sup>

**PENRT:** 222 MJ/m<sup>2</sup>

**GWP-total:** 21,7 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP:** 0,0573 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life:** yes, replacements rates with whole numbers (according to EN 15804 standard)

| no.                     | layer (from inside to outside)  | d<br>cm     | Useful life >b | $\Delta\text{OI3}$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|-------------------------|---|-------------|----------------|--|-----------------------------|---------------------------|
| 1                       | Brettsper Holz BBS (3-lagig) (Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%)) | 5,90        | 100            | <sup>1</sup> 19                          | 2                           | 2                         |
| <b>building element</b> |   | <b>5,90</b> |                |  |                             |                           |

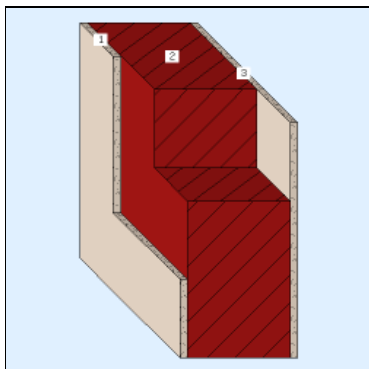
**annotations:** Importiert am 06. 03. 2022: Bauteil "IW01b\_" aus Gebäude ""

<sup>1</sup> layer is OI-relevant from BG3

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### W3\_F1-8\_N\_in (interior walls, BG3)



$\Sigma\Delta\text{OI3}$ : 40 points/m<sup>2</sup>

$\text{EI}_{\text{kon}}$ : 0,34 points/m<sup>2</sup>

**mass**: 325,0 kg/m<sup>2</sup>

**PENRT**: 463 MJ/m<sup>2</sup>

**GWP-total**: 50,9 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP**: 0,121 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life**: yes, replacements rates with whole numbers (according to EN 15804 standard)

| no. layer (from inside to outside)  | d <sub>cm</sub> | Useful life >b | $\Delta\text{OI3}$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|---|-----------------|----------------|--|-----------------------------|---------------------------|
| 1 Rigips Feuerschutzplatte (Normal plastering mortar GP lime (1500 kg/m <sup>3</sup> )) | 1,50            | 35             | <sup>1</sup> 11                          | 2                           | 3                         |
| 2 Brettsperrholz BBS (3-lagig) (Hollow concrete blocks (1400 kg/m <sup>3</sup> ))       | 20,00           | 100            | <sup>1</sup> 17                          | 2                           | 2                         |
| 3 Rigips Feuerschutzplatte (Normal plastering mortar GP lime (1500 kg/m <sup>3</sup> )) | 1,50            | 35             | <sup>1</sup> 11                          | 2                           | 3                         |
| <b>building element</b>   | <b>23,00</b>    |                |  |                             |                           |

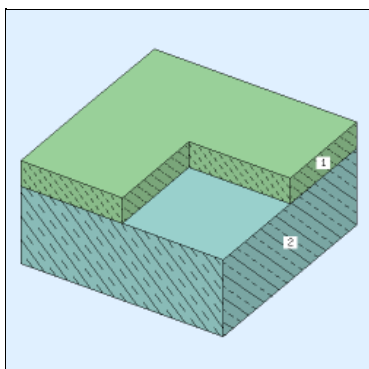
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<sup>1</sup> layer is OI-relevant from BG2

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### R2 (old component type, BG3)



$\Sigma\Delta\text{OI3}$ : 64 points/m<sup>2</sup>

$\text{EI}_{\text{kon}}$ : 0,45 points/m<sup>2</sup>

**mass**: 446,3 kg/m<sup>2</sup>

**PENRT**: 748 MJ/m<sup>2</sup>

**GWP-total**: 76,8 kg CO<sub>2</sub> equ./m<sup>2</sup>

**AP**: 0,196 kg SO<sub>2</sub> equ./m<sup>2</sup>

**service life**: yes, replacements rates with whole numbers (according to EN 15804 standard)

**U value** <sup>1</sup>

3,630 W/m<sup>2</sup>K



**OI-Class (BG3)** <sup>2</sup>

G



| no. layer  | d <sub>cm</sub> | Useful life >b | $\Delta\text{OI3}$<br>pts/m <sup>2</sup> | Disposal-<br>classification | Exploitation<br>potential |
|--|-----------------|----------------|--|-----------------------------|---------------------------|
| 1 Cement and cement flowing screed (1800 kg/m <sup>3</sup> )               | 5,00            | 50             | 16                                       | 3                           | 4                         |
| 2 Reinforced concrete 140 kg/m <sup>3</sup> reinforcing steel (1.75 vol.%) | 15,00           | 100            | 47                                       | 2                           | 2                         |
| <b>building element</b>  | <b>20,00</b>    |                |  |                             |                           |

**annotations:** Importiert am 06. 03. 2022: Bauteil "De 03: Kellerdecke, Stahlbeton" aus Gebäude ""

<sup>1</sup> U value (Heat transfer coefficient) calculated according to ÖNORM EN ISO 6946. **A++**: U-Werte im Bereich der Markierung A++ (0,14 W/m<sup>2</sup>K) sind notwendig, um derartige Gebäude zu errichten. **RL6**: OIB Richtlinie 6 (April 2007); In ganz Österreich seit 1.1.08 verbindlich festgelegter max. U-Wert (0,20 W/m<sup>2</sup>K) für alle Neubauten sowie instandgesetzte bzw. erneuerte Bauteile. <sup>2</sup> For the OI class, the U-value of the component is taken into account in addition to the ecological key figures

16. 05. 2022, Qiming SUN (Tianjin University)

## List of materials

| material  | mass<br>kg | mass-<br>percentage | cumulated<br>percentage | Building<br>material ID | Density<br>kg/m³ | λ-<br>Value<br>W/m²K | PENRT<br>MJ/FU<br>(functional<br>unit) | GWP-total<br>kg CO₂ equ./FU<br>(functional unit) | AP<br>kg SO₂ equ./FU<br>(functional unit) | FU<br>(functional<br>unit) |
|---|------------|---------------------|-------------------------|-------------------------|------------------|----------------------|--|--|---|----------------------------|
| Reinforced concrete 140 kg/m³<br>reinforcing steel (1.75 vol.%) | 1.973.996  | 66,4%               | 66,4%                   | 2142717549              | 2.375            | 2,500                | 1,58                                   | 0,155  | 0,000409                                  | kg                         |
| Hollow concrete blocks (1400 kg/m³)                             | 653.240    | 22,0%               | 88,4%                   | 2142714718              | 1.400            | 1,200                | 0,636                                  | 0,0951   | 0,000181                                  | kg                         |
| Cement and cement flowing screed<br>(1800 kg/m³)                | 174.060    | 5,9%                | 94,2%                   | 2142714882              | 1.800            | 1,100                | 1,03                                   | 0,120  | 0,000278                                  | kg                         |
| Normal plastering mortar GP lime (1500<br>kg/m³)                | 94.412     | 3,2%                | 97,4%                   | 2142714785              | 1.500            | 0,670                | 2,11                                   | 0,178  | 0,000524                                  | kg                         |
| Silicate plaster with synthetic resin<br>additive, reinforced   | 39.199     | 1,3%                | 98,7%                   | 2142684396              | 1.800            | 0,800                | 13,3                                   | 0,651  | 0,00350                                   | kg                         |
| Mineral adhesive  | 15.021     | 0,5%                | 99,2%                   | 2142684362              | 1.800            | 1,000                | 4,07                                   | 0,341  | 0,000954                                  | kg                         |
| Timber (525 kg/m³ - e.g. larch) - rough,<br>technically dried   | 11.166     | 0,4%                | 99,6%                   | 2142715293              | 525              | 0,130                | 2,77                                   | -1,65  | 0,00104                                   | kg                         |
| EPS-F grey/black (by 2010) (16.5<br>kg/m³)                      | 9.975      | 0,3%                | 100,0%                  | 2142714936              | 17               | 0,035                | 98,9                                   | 4,17   | 0,0149                                    | kg                         |
| Polyethylene (PE) sealing sheeting                              | 657        | 0,0%                | 100,0%                  | 2142712507              | 980              | 0,500                | 69,8                                   | 2,10   | 0,00792                                   | kg                         |
| Bauder TEC KSD, Bauder TEC KSD<br>DUO                           | 462        | 0,0%                | 100,0%                  | 2142732461              | 1.150            | 0,170                | 41,6                                   | 0,819  | 0,00556                                   | kg                         |
| Sisalex™ 30   | 131        | 0,0%                | 100,0%                  | 2142684992              | 800              | 0,180                | 14,2                                   | -0,953   | 0,00589                                   | kg                         |