### SBW\_03 Mur à remplissage en bottes de paille avec double ossature bois externe (GREB) | Straw-bale infill wall with dual exterior timber frame (GREB) | Relleno de balas de paja con doble estructura de madera exterior (GREB)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thermal resistance (m2.K/W): | 7.7 | **U.** | **Qty.** | **Density** | **Weight** | **Therm. Cond.**  **λ** | **Heat**  **capacity** | **Air q.** | **MU** | **Climate change** (GWP) | **Primary Non-Renewable Energy**  (PENRT) | **Sources** |
| Heat transmission delay ∆t (h): | 21.20 |
| Heat transmission factor (%): | 0.39 |
| Heat capacity (1 day) kJ/m²K: | 65 |
| Heat capacity (12 days) - kJ/m²K: | 774 |
| Bio resources volume (m3/m²): | 0.45 |
|  | |  |  | *kg/m3* | *kg/m²* | *W/m°C* | *Wh/kg.K* |  |  | *kg. eq. CO2* | *MJ* |  |
| 1. Enduit chaux | Lime plaster | Enlucido de cal | | mm | 30 | 1600.0 | 67.20 | 0.700 | 0.24 | A+ | 8 | +9.93 | +93.79 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%204249) |
| 2. Mortier coulé | Poured mortar | Mortero vertido | | mm | 50 | 1300.0 | 52.00 | 0.313 | 0.24 |  | 9 | +2.36 | +22.38 | [FDES](http://www.inies.fr/Upload/Prod103_doc1.pdf) |
| 7. Montant extérieur | Ext. wood frame | Montante | | \_\_x\_\_x\_\_ | 2000x50x100 | 490.0 | 4.90 | 0.120 | 0.44 |  | 120 | +0.51 | +52.75 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 3. Botte de paille | Straw bale | Päja | | mm | 370 | 100.0 | 36.60 | 0.052 | 0.44 | A+ | 2 | -13.95 | +40.56 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%203248) [Straw construction standard](https://rfcp.fr/les-regles-professionnelles/) [RFCP](http://www.rfcp.fr/) |
| 8. Liteau | Batten or strip | Listón | | \_\_x\_\_x\_\_ | 2000x45x45 | 490.0 | 1.98 | 0.120 | 0.44 |  | 120 | +0.21 | +21.36 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 4. Mortier coulé | Poured mortar | Mortero vertido | | mm | 50 | 1300.0 | 52.00 | 0.313 | 0.24 |  | 9 | +2.36 | +22.38 | [FDES](http://www.inies.fr/Upload/Prod103_doc1.pdf) |
| 9. Montant intérieur | Internal upright | Montante | | \_\_x\_\_x\_\_ | 2000x50x100 | 490.0 | 4.90 | 0.120 | 0.44 |  | 120 | +0.51 | +52.75 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 5. Enduit chaux | Lime render | Enlucido de cal | | mm | 30 | 1600.0 | 67.20 | 0.700 | 0.24 | A+ | 8 | +9.93 | +93.79 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%204249) |
| **SUM** | | **mm** | **530** |  | **287** |  |  |  |  | **+11.85** | **+399.76** |  |

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