### SBW\_05 - Mur à remplissage en bottes de paille avec ossature légère centrée non porteuse | Wall with straw-bale infill and lightweight non-load-bearing centred framework | Relleno con balas de paja de una estructura ligera centrada y no portante

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thermal resistance (m2.K/W): | 7.3 | **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): | 16.74 |
| Heat transmission factor (%): | 1.25 |
| Heat capacity (1 day) kJ/m²K: | 40 |
| Heat capacity (12 days) - kJ/m²K: | 477 |
| Bio resources volume (m3/m²): | 0.37 |
|  | |  |  | *kg/m3* | *kg/m²* | *W/m°C* | *Wh/kg.K* |  |  | *kg. eq. CO2* | *MJ* |  |
| 1. 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) |
| 2. Botte de paille | Straw bale | Paja | | mm | 370 | 100.0 | 35.48 | 0.052 | 0.44 | A+ | 2 | -13.53 | +39.32 | [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/) |
| 4. Montant | Upright | Montante | | \_\_x\_\_x\_\_ | 2000x145x45 | 490.0 | 6.39 | 0.120 | 0.44 |  | 120 | +0.67 | +68.84 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 5. Liteau | Batten | Listón | | \_\_x\_\_x\_\_ | 2000x40x27 | 490.0 | 1.06 | 0.120 | 0.44 |  | 120 | +0.11 | +11.39 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 3. Enduit terre | Earth-based render | Enlucido de tierra | | mm | 35 | 1042.5 | 36.49 | 1.000 | 0.28 |  | 8 | +13.39 | +72.23 | [DED (Default value)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010870) |
| **SUM** | | **mm** | **435** |  | **147** |  |  |  |  | **+10.56** | **+285.56** |  |

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