### SBW\_08 Mur porteur en petites bottes de paille | Load-bearing wall of small straw bales | Muro portante en balas de paja pequeñas

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thermal resistance (m2.K/W): | 6.2 | **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): | 17.72 |
| Heat transmission factor (%): | 0.97 |
| Heat capacity (1 day) kJ/m²K: | 47 |
| Heat capacity (12 days) - kJ/m²K: | 569 |
| Bio resources volume (m3/m²): | 0.54 |
|  | |  |  | *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. Bottes de paille | Straw bale | Paja | | mm | 470 | 100.0 | 47.00 | 0.080 | 0.44 | A+ | 2 | -14.11 | +41.01 | [FDES](https://www.base-inies.fr/Inies/UploadedFiles/INIES_CREM20131123_174740/FDES%20Paille_130901_v3%20def.pdf) [Straw construction standard](https://rfcp.fr/les-regles-professionnelles/) [RFCP](http://www.rfcp.fr/) |
| 4 Lisse bois | Wooden plate | Zuncho superior de madera | | \_\_x\_\_x\_\_ | 2000x100x50 | 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) |
| 4. Lisse bois | Wooden plate | Zuncho superior de madera | | \_\_x\_\_x\_\_ | 2000x450x8 | 550.0 | 3.96 | 0.130 | 0.44 |  | 140 | +2.69 | +33.80 | [STEICO](http://www.steico.com/) [Wikipédia](https://fr.wikipedia.org/wiki/Lamibois_(LVL)) [CTBA](http://catalogue-construction-bois.fr/wp-content/uploads/2017/05/1106-lamibois-LVL.pdf) |
| 5 Lisse bois | Wooden plate | Durmiente inferior de madera | | \_\_x\_\_x\_\_ | 2000x150x50 | 490.0 | 7.35 | 0.120 | 0.44 |  | 120 | +0.77 | +79.12 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 5 Lisse bois | Wooden plate | Durmiente inferior de madera | | \_\_x\_\_x\_\_ | 4000x200x50 | 490.0 | 19.60 | 0.120 | 0.44 |  | 120 | +2.04 | +211.00 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 3. 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** | **538** |  | **217** |  |  |  |  | **+11.76** | **+605.25** |  |

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