### SBW\_04 - Remplissage en paille Ossature bois traversante avec vide technique | Wall with straw-bale infill, full-width frame and air gap | Relleno con balas de paja de una estructura transversal con cámara para instalaciones

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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): | 17.45 |
| Heat transmission factor (%): | 1.04 |
| Heat capacity (1 day) kJ/m²K: | 23 |
| Heat capacity (12 days) - kJ/m²K: | 281 |
| Bio resources volume (m3/m²): | 0.39 |
|  | |  |  | *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 | 32.68 | 0.052 | 0.44 | A+ | 2 | -12.46 | +36.22 | [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/) |
| 7. Poutre en I | I I-beam with insulated web | Vigas en I | | m | 2 | 247.9 | 10.71 | 0.200 | 0.44 |  | 125 | +3.49 | +135.04 |  |
| 3. Frein vapeur | Vapour barrier | Freno de vapor | | m2 | 1.0 | 700.0 | 0.09 | 2.300 | 0.64 | A+ | 2130 | +0.65 | +11.81 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%208386) [Technical Agreement (Atec / DTA)](http://evaluation.cstb.fr/fr/rechercher/produits-evalues/?mots=Membrane%20VARIO®%20KM%20DUPLEX) |
| 4. Plaque | Board | Placa | | mm | 16 | 620.0 | 11.11 | 0.130 | 0.42 |  | 40 | +1.95 | +104.16 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2012744) [CTBA](http://www.fcba.fr/) [UIPP](http://www.uipp.fr/) |
| 5. Vide technique | Air gap | Cámara para instalaciones | | mm | 45 | 1.3 | 0.05 | 0.230 | 0.28 |  | 1 | +0.00 | +0.00 |  |
| 8. Liteau | Batten | Rastrel vertica | | \_\_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) |
| 6. Parement | Facing | Paramento | | mm | 12 | 680.0 | 0.05 | 0.250 | 0.28 | A+ | 7 | +2.18 | +40.71 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2022894) [PLACO](http://www.placo.fr/) |
| **SUM** | | **mm** | **474** |  | **124** |  |  |  |  | **+5.95** | **+443.09** |  |

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