### SBW\_07 - Caisson à remplissage en bottes de paille avec double ossature bois | Box structure with straw-bale infill and dual timber frame | Módulo prefabricado relleno de balas de paja con doble estructura de madera

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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): | 17.11 |
| Heat transmission factor (%): | 1.14 |
| Heat capacity (1 day) kJ/m²K: | 22 |
| Heat capacity (12 days) - kJ/m²K: | 263 |
| Bio resources volume (m3/m²): | 0.40 |
|  | |  |  | *kg/m3* | *kg/m²* | *W/m°C* | *Wh/kg.K* |  |  | *kg. eq. CO2* | *MJ* |  |
| 1. Pare pluie rigide et perspirant | Rigid, breathable rain screen | Tablero impermeable transpirable | | mm | 16 | 205.0 | 3.28 | 0.044 | 0.58 | A+ | 3 | +0.08 | +64.89 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%208648) [Pavatex](http://www.pavatex.com/) [SOPREMA](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2012760) |
| 2. Botte de paille | Straw bale | Paja | | mm | 370 | 100.0 | 32.28 | 0.052 | 0.44 | A+ | 2 | -12.31 | +35.77 | [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/) |
| 3. Isolant complémentaire | Additional insulation | Aislamiento complementario | | \_\_x\_\_x\_\_ | 4500x35x230 | 30.0 | 1.09 | 0.039 | 0.44 | A+ | 2 | +0.33 | +24.99 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2024198) [Biofib](http://www.biofib.com/) [ACERMI](http://evaluation.cstb.fr/fr/rechercher/produits-evalues/?mots=14/130/962) [Technical Agreement (Atec / DTA - France)](http://evaluation.cstb.fr/fr/rechercher/produits-evalues/?mots=20/14-329_V1) |
| 6. Montant | Upright | Montantes y almas de madera | | \_\_x\_\_x\_\_ | 4500x35x70 | 485.7 | 5.35 | 0.120 | 0.44 |  | 120 | +0.55 | +42.29 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010796) |
| 4. 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 - France)](http://evaluation.cstb.fr/fr/rechercher/produits-evalues/?mots=Membrane%20VARIO®%20KM%20DUPLEX) |
| 5. Contreventement | Bracing | Tablero estructural (arriostramiento) | | 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/) |
| **SUM** | | **mm** | **403** |  | **53** |  |  |  |  | **-8.75** | **+283.91** |  |

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