### SBR\_11 - Toiture avec remplissage en bottes de paille sur la structure | Roof with straw-bale infill on timber structure | Cubierta con relleno de balas de paja sobre la estructura de madera

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thermal resistance (m2.K/W): | 7.5 | **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): | 17.27 |
| Heat transmission factor (%): | 1.09 |
| Heat capacity (1 day) kJ/m²K: | 22 |
| Heat capacity (12 days) - kJ/m²K: | 263 |
| Bio resources volume (m3/m²): | 0.43 |
|  | |  |  | *kg/m3* | *kg/m²* | *W/m°C* | *Wh/kg.K* |  |  | *kg. eq. CO2* | *MJ* |  |
| 6. Lattage [ Battens | Rastreles | | \_\_x\_\_x\_\_ | 2000x42x35 | 490.0 | 1.44 | 0.120 | 0.44 |  | 120 | +0.15 | +15.51 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 7. Contrelattage | Counter battens | Contrarastreles | | \_\_x\_\_x\_\_ | 2000x42x35 | 490.0 | 1.44 | 0.120 | 0.44 |  | 120 | +0.15 | +15.51 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010604) |
| 1. Pare pluie | Rain screen | Membrana impermeable | | m2 | 1.0 | 700.0 | 0.22 | 2.300 | 0.64 |  | 5 | +1.99 | +54.72 | [DED (Default value)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%207990) |
| 2. Volige | Sheting | Entablado | | mm | 16 | 600.0 | 10.15 | 0.130 | 0.75 |  | 120 | +0.93 | +93.27 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%204112) |
| 3. Botte de paille | Straw bale | Paja | | mm | 370 | 100.0 | 37.00 | 0.052 | 0.44 | A+ | 2 | -14.11 | +41.01 | [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. Raidisseur [ Stiffener | Nervios | | \_\_x\_\_x\_\_ | 2000x370x16 | 620.0 | 8.22 | 0.130 | 0.42 |  | 40 | +1.44 | +77.08 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2012744) [CTBA](http://www.fcba.fr/) [UIPP](http://www.uipp.fr/) |
| 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) |
| 9. Chevron | Rafter | Correas | | \_\_x\_\_x\_\_ | 2000x60x70 | 485.7 | 4.08 | 0.120 | 0.44 |  | 120 | +0.42 | +32.22 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010796) |
| 5. Panneau de support | Support panel | | 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** | **404** |  | **74** |  |  |  |  | **-6.42** | **+445.27** |  |

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| C:\Users\Luc\AppData\Roaming\Cocon-Bim\configuration\userData\userReports\aacf94b8-0245-400a-82c1-711ec52c4c33.png |