### SBR\_12 - Toiture terrasse froide isolée en paille | Flat roof with straw bale infill and ventilated decking | Cubierta plana con relleno en balas de paja y pavimento ventilado

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thermal resistance (m2.K/W): | 8.1 | **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): | 18.29 |
| Heat transmission factor (%): | 0.83 |
| Heat capacity (1 day) kJ/m²K: | 22 |
| Heat capacity (12 days) - kJ/m²K: | 262 |
| Bio resources volume (m3/m²): | 0.42 |
|  | |  |  | *kg/m3* | *kg/m²* | *W/m°C* | *Wh/kg.K* |  |  | *kg. eq. CO2* | *MJ* |  |
| 1. Etanchéité | Waterproofing membrane | Membrana de estanqueidad | | m2 | 1.0 | 778.1 | 3.11 | 0.500 | 0.28 |  | Infinity | +12.49 | +284.19 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2012535) |
| 2. Platelage | Decking | Pavimento | | 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/) |
| 3. Lame d'air ventilée | Ventilated air gap | Cámara de aire ventilada | | mm | 45 | 1.3 | 0.06 | 0.192 | 0.28 |  | 1 | +0.00 | +0.00 |  |
| 4. Panneau rigide et perspirant | Rigid breathable panel | Panel rígido 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) |
| 5. Botte de paille | Straw bale | Paja | | mm | 370 | 100.0 | 29.89 | 0.052 | 0.44 | A+ | 2 | -11.40 | +33.13 | [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. Poutre en I | I-beam with insulated web | Viga en I | | m | 2 | 198.6 | 14.12 | 0.200 | 0.44 |  | 400 | +4.60 | +178.04 | [EPD (Verified)](https://www.base-inies.fr/iniesV4/dist/consultation.html?id=%2010691) |
| 6. 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) |
| 7. Parement | Facing | Paramento | | 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** | **468** |  | **73** |  |  |  |  | **+10.32** | **+780.38** |  |

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| C:\Users\Luc\AppData\Roaming\Cocon-Bim\configuration\userData\userReports\8bfe2b20-1c7a-47bf-8f83-ba40029371c0.png |