











| Co <sub>2</sub> olBricks  |                      |        |        |       |  |  |  |
|---|----------------------|--------|--------|-------|--|--|--|
| Used ins  | ulatio               | n mate | erials |       |  |  |  |
|   |                      |        |        |       |  |  |  |
|   | Material             |        |        |       |  |  |  |
| Property  | PIR                  | IQ-T   | AAC    | CaSi  |  |  |  |
| Thickness of used layer, mm   | 30                   | 50     | 60     | 50    |  |  |  |
| Thermal conductivity λ,<br>W/(mK)   | 0.027                | 0.031  | 0.047  | 0.063 |  |  |  |
| Vapor diffusion resistance coefficient µ, -   | 100                  | 27     | 2      | 4.6   |  |  |  |
| Water absorption coefficient A <sub>w</sub> , kg/(m <sup>2</sup> h <sup>0.5</sup> ) | 1.0·10 <sup>-7</sup> | 0.01   | 0.1    | 1.17  |  |  |  |
|   |                      |        |        | 7 tet |  |  |  |



















| Parameter                         | Symbol           | Outer layer<br>(Red clay brick)           | Inner layer<br>(Sand lime brick)          |  |
|-----------------------------------|------------------|---|---|--|
| Dry gross density                 | r                | 1.788 kg/m <sup>3</sup>                   | 1.704 kg/m <sup>3</sup>                   |  |
| Thermal conductivity              | l <sub>dry</sub> | 0,811 W/sqmK                              | 1,188 W/sqmK                              |  |
| Specific thermal capacity         | c                | 800 J/kgK                                 | 891 J/kgK                                 |  |
| Porosity                          | O <sub>Por</sub> | 0,325 m³/m³                               | 0,357 m³/m³                               |  |
| Capillary Saturation              | O <sub>cap</sub> | 0,106 m <sup>3</sup> /m <sup>3</sup>      | 0,177 m³/m³                               |  |
| Water vapour diffusion resistance | m <sub>dry</sub> | 28,0                                      | 18,65                                     |  |
| Water intake coefficient          | a <sub>w</sub>   | 0,0312 kg/m <sup>2</sup> s <sup>0.5</sup> | 0,3109 kg/m <sup>2</sup> s <sup>0.5</sup> |  |
|                                   |                  |   |   |  |











