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Thermal Insulation Performance of a Trombe Wall Combined with Collector and Reflection Layer in Hot Summer and Cold Winter Zone

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Highlights

- Thermal insulation performance of a Trombe wall was studied.
- Numerical model was validated experimentally and applied to parametric study.
- Changing operating conditions could adjust the insulation performance.
- Reflectivity of massive wall significantly affected the insulation performance.
- Economic thickness of massive wall was related to the collector temperature.

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