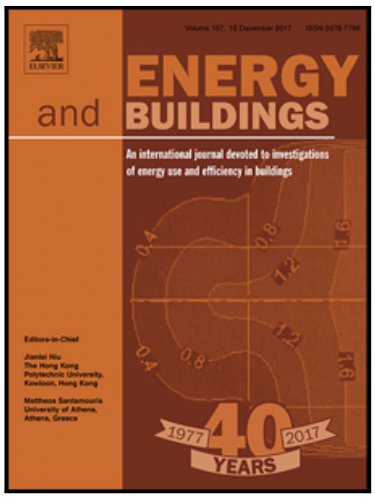

Thermal Insulation Performance of a Trombe Wall Combined with Collector and Reflection Layer in Hot Summer and Cold Winter Zone

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PII: S0378-7788(18)30336-0
DOI: 10.1016/j.enbuild.2018.04.035
Reference: ENB 8508

To appear in: *Energy & Buildings*

Received date: 28 January 2018
Revised date: 13 April 2018
Accepted date: 18 April 2018

Please cite this article as: Jibo Long , Yongga A , Hongfa Sun , Thermal Insulation Performance of a Trombe Wall Combined with Collector and Reflection Layer in Hot Summer and Cold Winter Zone, *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.04.035

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.