

## Accepted Manuscript

The thermal performances of historic masonry: in-situ measurements of thermal conductance on calcarenite stone walls in Palermo

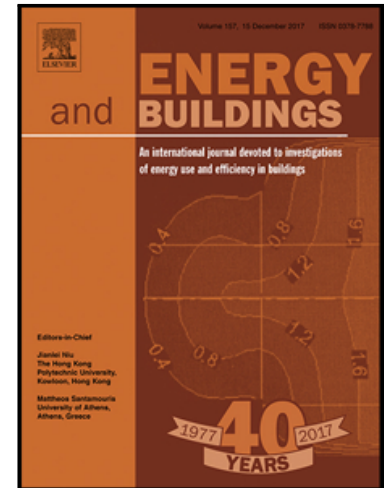
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**Highlights**

- Thermal data are provided for Sicilian calcarenite walls.
- $\Lambda$ -value calculations based on the  $\lambda$ -value of tuff (UNI 10351) are reliable.
- $\Lambda$ -value based on  $\lambda$  of light sedimentary rock (UNI EN ISO 10456) is overestimated.
- Summer in situ tests of  $\Lambda$  do not provide accurate results in Mediterranean climate.

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