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Multivariate analysis for assessing the thermal performance of vertical opaque envelopes in extended regions

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Volume 46, Issue 3 | <https://doi.org/10.1177/17442591221127280>

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Abstract

We introduce a statistical methodology to evaluate the thermal performance of vertical opaque envelopes and provide the most adequate design of energy-efficient buildings located across extended regions. The analytical procedure was applied to the extensive Argentinian territory with a variety of climates and a limited number of networked meteorological stations. Although the study was conducted over a full year, results are presented for January and June, when the building energy demand for heating and cooling is

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