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EXPERIMENTAL AND NUMERICAL ANALYSIS OF A NATURALLY VENTILATED DOUBLE-SKIN FAÇADE

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Highlights

- A double skin façade (DSF) applied in a test cell is designed and analyzed.
- Thermocouples K type is used to measure the temperatures and hot wire anemometers for the air velocity.
- Ansys CFX simulations are made to obtain a better analysis of heat transfer and airflow.
- Results of an uninterrupted 3-day measurement sequence are presented.
- Results show that DSF can contribute to the reduction of the temperature of the wall faces and contribute with the reducing of the heat gains in the indoor environment.

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