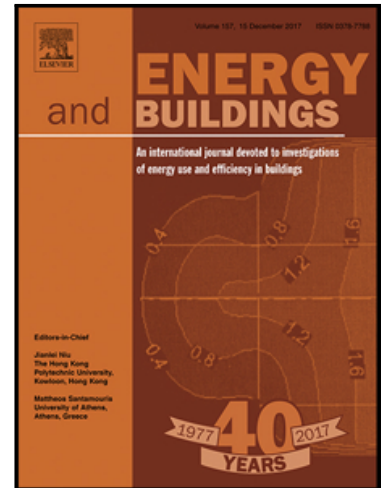


## Accepted Manuscript

Wind Tunnel Investigations of Sidewall Opening Effects on Indoor Airflows of a Cross-Ventilated Dairy Building

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**Highlights:**

- The ‘up-jet’ flow pattern is observed with openings at the top of sidewalls.
- No air recirculating happens within the AOZ with low sidewalls above floor.
- The air speed and turbulent kinetic energy increase with increasing opening size.
- The air speed distributes homogeneously in the AOZ with high sidewalls above floor.
- High air speeds are observed close to side openings with low sidewalls above floor.

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