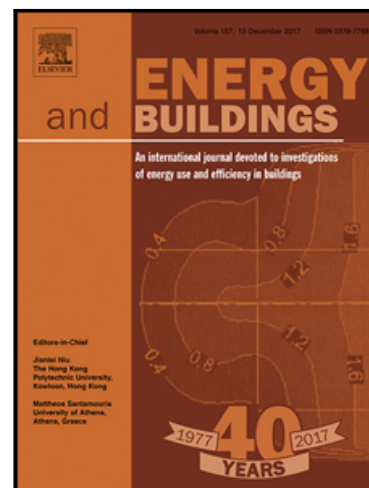


## Accepted Manuscript

### Investigation of Discharge Coefficient for Wind-driven Naturally Ventilated Dairy Barns

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**Highlights**

- $C_d$  value is largely dependent on the opening size of the building.
- The assumption of pure pressure-driven flow is not satisfied in NVDBs.
- Non-uniform velocity distributions in the openings are observed.
- The relationship between  $C_d$  and the opening size is found.

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