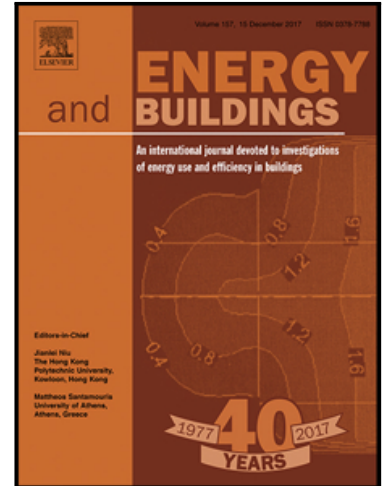


## Accepted Manuscript

Integrated utilization of fly ash and waste glass for synthesis of foam/dense bi-layered insulation ceramic tile

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## Highlights

- A new foam/dense bi-layered insulation ceramic tile was prepared by using high alumina fly ash and waste glass as main raw material.
- The bi-layered insulation ceramic tile showed a good bonding between foam and dense layer under a two-step preparation method including single-loading pressing and single-sintering process.
- The result of energy saving simulation shown that this bi-layered insulation ceramic tile have well applied prospects.

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