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Hygrothermal properties of unfired earth bricks: effect of barley straw, hemp shiv and corn cob addition

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**Highlights:**

- Thermal conductivity decreases with the addition of plant aggregates.
- Earth material is highly water vapour permeable.
- Sorption-desorption isotherms are assessed with DVS and saturated salt solution methods.
- MBV of earth-based materials is excellent.

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