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Thermo-acoustic performance of green roof substrates in dynamic hygrothermal conditions

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**Highlights**

- Disaggregated materials from green roofs substrates
- Impact of water content on the thermo-acoustic performance
- Raining processes can highly influence the thermal performance
- Final acoustic absorption and insulation is influenced when increasing the water
- The conditioning at 90% RH does not produce significant differences of the final acoustic behavior

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