Phase change energy storage foam concrete

Abstract:In order to reduce the energy consumption of buildings to achieve sustainable development of buildings, this study used methyl palmitate-myristate (MP-MA) binary eutectic ...

Numerical analysis for the heat transfer characteristics of the phase change thermal storage foam concrete wall revealed that optimal thermal insulation and thermal storage performances were ...

In order to seek building materials with energy-saving effect, a phase change thermal storage foam concrete with thermal storage and temperature regulation capabilities was prepared by ...

Energy consumption can be reduced by improving thermal performance of buildings and using energy efficiently. This can be achieved by integrating phase change material (PCM) with heat ...

1. Introduction Phase Change Materials (PCMs) are ""latent"" thermal storage materials possessing a large amount of heat energy stored during its phase change stage [1]. The energy ...

Abstract The possible incorporation of phase change materials (PCMs) in building materials has attracted a lot of research interest worldwide due to the concern on global warming and the ...

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