Accepted Manuscript

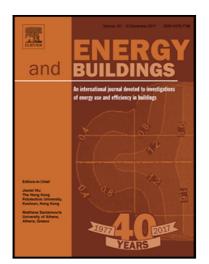
Thermal performance and numerical simulation of geopolymer concrete containing different types of thermoregulating materials for passive building applications

Vinh Duy Cao, Shima Pilehvar, Carlos Salas-Bringas, Anna M. Szczotok, Tri Quang Bui, Manuel Carmona, Juan F. Rodriguez, Anna-Lena Kjøniksen

 PII:
 S0378-7788(17)33924-5

 DOI:
 10.1016/j.enbuild.2018.06.011

 Reference:
 ENB 8613



To appear in: Energy & Buildings

Received date:6 December 2017Revised date:26 February 2018Accepted date:7 June 2018

Please cite this article as: Vinh Duy Cao, Shima Pilehvar, Carlos Salas-Bringas, Anna M. Szczotok, Tri Quang Bui, Manuel Carmona, Juan F. Rodriguez, Anna-Lena Kjøniksen, Thermal performance and numerical simulation of geopolymer concrete containing different types of thermoregulating materials for passive building applications, *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.06.011

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- GPC with a high storage heat capacity containing MPCM was successfully fabricated.
- The thermal conductivity of GPC decreases with increasing amount of MPCM.
- Hygroscopic nature and size of MPCM significantly affects thermal properties of GPC.
- New equation for modeling the specific heat capacity of GPC containing MPCM.
- Energy efficiency increases with increasing MPCM concentration and wall thickness.

A CERTIN

Download English Version:

https://daneshyari.com/en/article/6727732

Download Persian Version:

https://daneshyari.com/article/6727732

Daneshyari.com