Home Journal Information

tion <u>Short History</u>

Editorial Board Aut

Author Guidelines Archive

Contact

# Experimental Simulations of Ventilation Modes in Double-Skin Envelopes

Author(s): Cătălin-Viorel Popa • Nelu-Cristian Cherecheș • Guillaume Polidori • Stéphane Stephane

Tomme: LII (LVI) | Fascicle: 1-2 | 2006

Pages: 125-132

# Abstract text:

An experimental study of a heated vertical plane channel, representative of double-skin envelopes, was undertaken. The study was focused on the dynamics of the natural convection flow resulting from the uniform heating of one of the walls on its central part. Only the convective aspects related to natural ventilation are studied by carrying out the experiments in water in order to neglect radiation. Flow visualization techniques made it possible to show the strongly unsteady and three-dimensional character of the resulting flow and to observe the presence of a reverse flow of variable length on the studied range of modified Rayleigh numbers  $106 \le Ra^* \le 2 \times 107$ .

Key Words:

## View full text PDF 🗾

## Author(s) Information

#### Cătălin-Viorel Popa

Affiliation: University of Reims, Champagne-Ardenne, France, Laboratoire de Termomecanique. Email: -

## **Nelu-Cristian Cherecheş**

Affiliation: "Gheorghe Asachi" Technical University, Jassy, Department of Building Equipment Engineering. Email: -

#### **Guillaume Polidori**

Affiliation: University of Reims, Champagne-Ardenne, France, Laboratoire de Termomecanique. Email: -

# Stéphane Stephane

Affiliation: University of Reims, Champagne-Ardenne, France, Laboratoire de Termomecanique. Email: -

All documents with a 🖾 icon require Adobe Acrobat installed on your computer

Current Issue T. LVI (LX), Fasc. 3, 2010

Browse by Issues by Authors

For Authors Preparing Artworks Manuscript Submission Manuscript Template Journals Name Abbreviation Copyright Transfer Statement

#### Abstracted & Indexed

The Bulletin of the Polytechnic Institute of Jassy, Construction. Architecture Section is indexed and abstracted in: Index Copernicus, ProQuest, Ebsco, DOAJ, BASE, Scientific Commons, DRIVER, WorldWideScience.org, getCITED, ResearchGATE, Ovid LinkSolver, Genamics Journalseek, Electronic Journals Library, WorldCat, Intute.

### Ranking

The journal is ranked by the National University Research Council as a B+ quality journal (CNCSIS Code 44).

Search in:		
Authors	-	
Search Term		>>

Copyright © 2006 – 2010. Bulletin of the Polytechnic Institute of Iasi. Construction and Architecture Section.