

Experimental Tests Concerning the Behaviour of the Steel-Concrete Composite Joints

Author(s): Daniel Dan • Valeriu Stoian • Tamás Nagy-György

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

Pages: 89-98

Abstract text:

The design of the building structures situated in a seismic area deals with some special provisions in order to satisfy the design concept for earthquake loads. Thus, some inelastic deformations must be concentrated in predefined zones for seismic energy dissipation. Therefore, it is important to evaluate correctly the load bearing capacity of each basic structural element, such as beams, columns and joints too. At the "Politehnica" University of Timisoara, it was developed an experimental test program for a specific steel and composite (steel-concrete) joint. Two load hypotheses were considered in order to simulate the permanent loads and the horizontal (seismic) loads, respectively, acting on the structure and the corresponding joints. Two series of joints were tested in laboratory for monotonous and cyclic behavior. Both the steel and the steel-concrete joints were studied. A comparative study between the steel and the steel-concrete composite joints is presented.

Key Words:

-

[View full text PDF](#) 

Author(s) Information

Daniel Dan

Affiliation: „Politehnica” University, Timișoara, Department of Civil, Industrial and Agricultural Engineering.

Email: -

Valeriu Stoian

Affiliation: „Politehnica” University, Timișoara, Department of Civil, Industrial and Agricultural Engineering.

Email: -

Tamás Nagy-György

Affiliation: „Politehnica” University, Timișoara, Department of Civil, Industrial and Agricultural Engineering.

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 (CNCISIS Code 44).

Search in:



