

Experimental Studies of a Series of High Strength Friction Grip Bolted Joints

Author(s): M. Budescu • I. Ciongradi • Victor-Octavian Roşca

Tomme: LI (LV) | **Fascicle:** 1-2 | 2005

Pages: 23-30

Abstract text:

The performed tests intended to establish the necessary conditions for surfaces of the assemblage elements in contact with the KB, so as, by connecting them using the HSFG (High Strength Friction Grip) bolts, to ensure the necessary frictional resistance. The tests have performed using 2.5mm thickness KB250 thin – walled profiles. This minimum thickness is often used for structural elements in this constructive system. The KONTIBEAM system is primarily made of two galvanized sheet profiles so denominated as “KB”, which are joined by means of steel sheets, (usually of 10 mm thickness), placed in – between them. Connecting this assembly (KB’s and connectors) is done by using M20 bolts put in Ø 22 holes, which work in friction with two contact planes. The tested joints are connected by means of 8.8 class HSFG bolts. The connecting elements for tested KB’s have been manufactured with two types of prepared surfaces: (i) rough (sandblasted) and (ii) covered with a zincamid film. The main conclusions of tests are that the bearing capacity of connections with sandblasted surface joining elements observes the norms while the bearing capacity of connections with painted – surface joining elements does not observes the norms.

Key Words:

-

[View full text PDF](#) 

Author(s) Information

M. Budescu

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Structural Mechanics.

Email: mbudescu@ce.tuiasi.ro

I. Ciongradi

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Structural Mechanics.

Email: ciongradi@ce.tuiasi.ro

Victor-Octavian Roşca

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Structural Mechanics.

Email: vrosca@ce.tuiasi.ro

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:



