Improvement of Buildings' Structural Quality by New Technologies

Edited by Christian Schaur, Federico Mazzolani, Gerald Huber, Gianfranco De Matteis, Heiko Trumpf, Heli Koukkari, Jean-Pierre Jaspart and Luis Bragança

COST C12 Final Conference Proceedings
January 2005
Improvement of Buildings' Structural Quality by New Technologies

Edited by
Christian Schaur
Austria
Federico Mazzolani
Italy
Gerald Huber
Austria
Gianfranco de Matteis
Italy
Heiko Trumpf
Germany
Heli Koukkari
Finland
Jean-Pierre Jaspart
Belgium
Luis Bragança
Portugal
Improving the performance of buildings
H. Koukkari & P. Huovila

Effective use of cold-formed steel structures for low-story urban buildings
E.L. Airumyan, O.I. Boiko & S.V. Kamynin

Session 8: Research and development concerning mixed building technologies
On design of composite beams with concrete cracking
J. Bujnak & J. Odrobinak

Design methodology of profiled steel sheets for composite slabs by FEM
M. Ferrer, F. Martim & F. Roure

Crack propagation at headed shear studs in composite beams
M. Feldmann & H. Gesella

Load-carrying capacity of anchor plates with welded studs
U. Kuhlmann & M. Rybinski

An experimental study of the strength and stiffness of concrete-filled steel tubular column connections with weld and stiffener angles
S. De Nardin & A.L.H.C. El Debs

Load-deformation and vibration-behaviour of new types of composite slim-floor slabs
C. Butz, O. Hechler & H. Trumpf

Session 9: Urban design 2
Sustainable design in construction sector
L. Bragança, R. Mateus & H. Koukkari

Aesthetics in urban design seen from the perspective of sustainability
C.M. Ravesloot, L. Apon & E.M. Boelman

Social demands and stakeholders participation in Dutch sustainable housing policy
C.M. Ravesloot

Energy neutral retrofitting of apartment flats – modelling and detailing with consent of inhabitants
C.M. Ravesloot, L. Apon & E.M. Boelman

Sustainability assessment of new construction technologies: a comparative case study
H. Gervásio, L.S. da Silva & L. Bragança

Aluminium – a sustainable building material?
C. Radlbeck, D. Kostes & M. Schlinz

Sustainability by LCCA of aluminium structures
E. Dienes, C. Radlbeck & D. Kostes

Functional assessment of lightweight construction solutions in view of sustainability
L. Bragança & P. Mendonça

Comparative assessment of exterior walls construction solutions’ sustainability
L. Bragança & R. Mateus