

Special Activity Group 4

Fastenings to structural concrete and masonry

- Convener: Eligehausen (Univ. Stuttgart, Germany)
Secretary: Silva (Hilti Inc., USA)
Members: Akiyama (Tokyo Soil Research Co., Japan), Bergmeister (Universität für Bodenkultur, Austria), Bourrette (SPIT, France), Cook (Univ. of Florida, USA), Elfgren (Luleå Univ. of Technology, Sweden), Genesio (Univ. Stuttgart, Germany), Hoehler (Hilti North America, USA), Klingner (University of Texas, USA), Lotze (MPA Univ. Stuttgart, Germany), Mallee (Fischerwerke, Germany), Matsuzaki (Science Univ. of Tokyo, Japan), Mattis (CEL Consulting, USA), Mesureur (CSTB, France), Nakano (Univ. of Tokyo, Japan), Spieth (fischerwerke GmbH & co. KG, Germany), Vintzileou (National Technical Univ. Athens, Greece), Wall (Hilti AG, Liechtenstein), Wiewel (Techmar, Inc., USA), Wollmershauser (Hilti Inc., USA), Yi (Kwang Woon Univ., South Korea).
- Corr. Members: Alcocer (Institute of Engineering, UNAM, Mexico), Covert (Covert Operations, USA), Cueto (Hilti Spain SA, Spain), Curbach (Technische Univ. Dresden, Germany), Fletcher (Westkon Precast, Australia), Gomes (Hilti Portugal, Lda., Portugal), Graubner (Technische Hochschule Darmstadt, Germany), Hagel (Simpson Strong Tie Company, Inc., USA), Hordijk (Adviesbureau Hageman, The Netherlands), Hosokawa (Maeda Corporation, Japan), Jirsa (Univ. of Texas, USA), Katagiri (Zen Sekkei Corp., Japan), Kraus (Germany), Lancelot (Dayton/Richmond, USA), Li (MKT Metall-Kunststoff-Technik GmbH & Co. KG, Germany), Michler (Technische Univ. Dresden, Germany), Okada (Univ. of Tokyo, Japan), Stochlia (ICC Evaluation Service, USA), Tanaka (Tohoku Institute of Technology, Japan), Tao (China Academy of Building Research, China), Turley (Simpson Strong Tie Company, Inc., USA), Zambrano (Univ. Santo Tomas, Colombia)
- Recent Meetings: Boston (Oct. 03), Lisbon (May 04), Stuttgart (May 05), Athens (Sep. 05), Naples (June 06), Vienna (June 07), Stuttgart (September 07), Berkeley (June 08)

Terms of reference

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The group has been meeting regularly since 1987. A CEB State of the Art report was published as Bulletins 206 and 207, *Fastenings to reinforced concrete and masonry structures*. A CEB Design Guide was published as Bulletin 226 in 1995, containing three parts (part 1: General provisions, part 2: Post-installed expansion and undercut anchors, part 3: Cast-in-place headed anchors). A revised edition was published by Telford in January 1997 in two volumes: *Design of Fastenings in Concrete* and *Fastenings for Seismic Retrofitting*.

Continuing these activities, the group is working on a new edition of the design guide that will include bonded anchors (part 4), channel bars (part 5) and shear lugs (part 6) as well as expanded treatment of shear resistance and resistance to seismic excitations. Later extensions planned are a more comprehensive treatment of the design of fastenings under seismic excitations, a design guide of fastenings for retrofitting, and a treatment of the subject of post-installed reinforcing bars.