

Special Activity Group 4

Fastenings to structural concrete and masonry structures

- Convener: **Eligehausen** (Stuttgart, Germany)
Secretary: **Silva** (Hilti, USA)
Members: Akiyama (Tokyo Soil Research, Japan), Asmus (IEA, Germany), Barthomeuf (SPIT, France), **Bergmeister** (Universität für Bodenkultur, Austria), Cook (Univ. of Florida, USA), Elfgrén (Luleå Univ. of Technology, Sweden), Genesio (Univ. Stuttgart, Germany), Grosser (Univ. Stuttgart, Germany), Hoehler (Hilti, Liechtenstein), **Hofmann** (Univ. Stuttgart, Germany), Klingner (Univ. of Texas, USA), **Kuhn** (Adolf Würth, Germany), Lange (DIBt, Germany), **Li** (fischerwerke, Germany), Lotze (MPA Stuttgart, Germany), **Mallée** (Germany), Matsuzaki (Science Univ. of Tokyo, Japan), **Mattis** (CEL Consulting, USA), **Mesureur** (CSTB, France), Roik (Halfen, Germany), **Rutz** (MKT, Germany), **Sippel** (VBBF, Germany), **Spieth** (fischerwerke, Germany), **Stochlia** (ICC-ES, USA), Vintzileou (National Technical Univ. Athens, Greece), **Wall** (Hilti, Liechtenstein), Wollmershauser (USA), Yamamoto (Shibaura Institute of Technology, Japan).
Correspondents: Fletcher (Australia), **Hordjik** (Adviesbureau, The Netherlands), Hosokawa (Univ. of Tokyo, Japan), Michler (Techn. Univ. Dresden, Germany), Nakano (Tokyo Univ., Japan), Olsen (Powers, USA), Rieder (BBT, Austria), Turley (Simpson Strong Tie, USA), Ziegler (Powers, USA).
Recent Meetings: Vienna (June 07), Stuttgart (September 07), Berkeley (June 08), Jacksonville (April 09), Abisko (July 10)

Names of *fib* members are given in bold

Terms of reference

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The group has been meeting regularly since 1987, at least once a year. A CEB State-of-art report was published in 1991 as CEB-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 has finalized a new edition of this design guide that will also include bonded anchors, post-installed reinforcing bars and channel bars, as well as expanded treatment of shear resistance, resistance to seismic excitations, to fire and resistance to fatigue loading.

Later extensions are planned to cover shear lugs, a comprehensive treatment of the design of fastenings for retrofitting as well as the design of fastenings in masonry.