

**Australian Engineered  
Fasteners and Anchors Council**

**AEFAC STANDARD PART I**

**DESIGN OF POST-INSTALLED AND CAST-IN  
FASTENINGS TO CONCRETE**

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Public consultation draft

**Public comment opens: 15<sup>th</sup> April, 2015**

**Public comment closes: 10<sup>th</sup> June, 2015**

All feedback is to be included in the *AEFAC Standard Public Comment Template* available for download at [www.aefac.org.au/resources.php](http://www.aefac.org.au/resources.php).

Questions and feedback are to be submitted via email to David Heath, Chair of the AEFAC Standard Development Committee, [dheath@swin.edu.au](mailto:dheath@swin.edu.au).

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# Design Of Post Installed And Cast In Fastenings For Use In

**Wolfgang Guggemos**



## **Design Of Post Installed And Cast In Fastenings For Use In:**

**Design of Post-installed and Cast-in Fastenings for Use in Concrete**, 2015      **Design of Fastenings for Use in Concrete** Rainer Mallée, Rolf Eligehausen, 2013-04-05 The European pre standard CEN TS 1992 4 for the design of fastenings by means of headed studs anchor channels as well as post installed mechanical and chemical anchors is ready for use The background and interpretation of the provisions related to the determination of actions and resistances based on limit state design durability fire resistance fatigue and earthquake actions as required by CEN TS 1992 are described in detail Selected chapters from the German concrete yearbook are now being published in the new English Beton Kalender Series for the benefit of an international audience Since it was founded in 1906 the Ernst Sohn Beton Kalender has been supporting developments in reinforced and prestressed concrete The aim was to publish a yearbook to reflect progress in ferro concrete structures until as the book's first editor Fritz von Emperger 1862 1942 expressed it the tempestuous development in this form of construction came to an end However the Beton Kalender quickly became the chosen work of reference for civil and structural engineers and apart from the years 1945 1950 has been published annually ever since

*Design of anchorages in concrete* fib Fédération internationale du béton, 2011-01-01 Despite the widespread use of cast in place and post installed anchors in construction the overall level of understanding in the engineering community regarding their behaviour remains quite limited Furthermore since the publication of the original CEB design guide Design of Fastenings in Concrete ongoing research and additional application experience has led to an improved understanding and deepened knowledge in various areas of fastening technology fib Bulletin 58 therefore represents a substantial revision of the original 1997 guide It addresses a variety of loading types and failure modes and takes into account the current state of the art for anchorages in new construction as well as for their use in the repair and strengthening of existing concrete structures fib Bulletin 58 provides a method for the design of the anchorage and additional rules for the design of the concrete member to which the load is transferred The specified provisions are based on the currently available research      **Mechanics of**

**Structures and Materials XXIV** Hong Hao, Chunwei Zhang, 2019-08-08 Mechanics of Structures and Materials Advancements and Challenges is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings

Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science *Design of fastenings in concrete draft CEB guide part 1 to 3 fastenings for seismic retrofitting state of the art report on design and application* FIB – International Federation for Structural Concrete, 1995-08-01 *Proceedings of the 26th Australasian Conference on the Mechanics of Structures and Materials* Nawawi Chouh, Chunwei Zhang, 2024-09-02 This book presents peer reviewed articles from The 26th Australasian Conference on the Mechanics of Structures and Materials ACMSM26 held in December 2023 at the University of Auckland in New Zealand Bringing together international experts and leaders to disseminate recent research findings in the fields of structural mechanics civil engineering and materials it offers a forum for participants from around the world to review discuss and present the latest developments in the broad discipline of mechanics and materials in civil engineering

**Fastenings to Concrete and Masonry Structures** Comité euro-international du béton, 1994 Modern fastening techniques are increasingly being used to transfer loads into concrete and masonry structures This book aims to compile and compare research on the behaviour of fastening systems It also proposes an approach to the design of fastenings based on empirical and theoretical models Structures and Architecture - Bridging the Gap and Crossing Borders Paulo J.S. Cruz, 2019-07-08 Structures and Architecture Bridging the Gap and Crossing Borders contains the lectures and papers presented at the Fourth International Conference on Structures and Architecture ICSA2019 that was held in Lisbon Portugal in July 2019 It also contains a multimedia device with the full texts of the lectures presented at the conference including the 5 keynote lectures and almost 150 selected contributions The contributions on creative and scientific aspects in the conception and construction of structures on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific technical and practical novelties in both fields ICSA2019 covered all major aspects of structures and architecture including building envelopes fa ades comprehension of complex forms computer and experimental methods futuristic structures concrete and masonry structures educating architects and structural engineers emerging technologies glass structures innovative architectural and structural design lightweight and membrane structures special structures steel and composite structures structural design challenges tall buildings the borderline between architecture and structural engineering the history of the relationship between architects and structural engineers the tectonic of architectural solutions the use of new materials timber structures among others This set of book and multimedia device is intended for a global readership of researchers and practitioners including architects structural and construction engineers builders and building consultants constructors material suppliers and product manufacturers and other professionals involved in the design and realization of architectural structural and infrastructural projects *Connections Between Steel and Concrete* R. Eligehausen, 2001 **Anchorage in Concrete Construction** Rolf Eligehausen, Rainer Mallée, John F. Silva, 2013-10-30 Das Buch stellt den aktuellen Stand der kompletten

Befestigungstechnik für Beton und Mauerwerk mit Einbauteilen Ankerschienen Kopfbolzen D beln Metallspreiz bel Hinterschnitt bel Verbund bel Betonschrauben Kunststoff bel und Setzbolzen umfassend dar Die Befestigungselemente und ihre Wirkungsmechanismen werden ausführlich beschrieben und das Tragverhalten im ungerissenen und gerissenen Beton untersucht Weiterhin werden das Korrosionsverhalten das Verhalten bei Brandbeanspruchung sowie bei Erdbeben und Schockbeanspruchung behandelt Von besonderer internationaler Aktualität ist die Bemessung gem der europäischen und amerikanischen Normung Praxisorientierte Kriterien zur Auswahl von Befestigungsmitteln und Bemessungsbeispiele runden das Werk zu einem einzigartigen Handbuch ab

**Design Solutions and Innovations in Temporary Structures** Beale, Robert, André, João, 2017-02-07 Temporary structures are a vital but often overlooked component in the success of any construction project With the assistance of modern technology design and operation procedures in this area have undergone significant enhancements in recent years Design Solutions and Innovations in Temporary Structures is a comprehensive source of academic research on the latest methods practices and analyses for effective and safe temporary structures Including perspectives on numerous relevant topics such as safety considerations quality management and structural analysis this book is ideally designed for engineers professionals academics researchers and practitioners actively involved in the construction industry

**Construction Technology for Builders** Glenn Costin, 2020-06-26 Construction Technology for Builders 1e addresses requirements of the Certificate IV in Building and Construction Building The text addresses 14 competency units with learning activities and work sheets for downloading The chapters are aligned to specific competency units and the material in this text requires and emphasises that the reader engage with Standards and Codes such as the NCC Communication is a critical component of the building and construction process and the preparation of sketches and drawings is a vital part of that communication skill set the text has a dedicated chapter on preparing building sketches and drawings There are two chapters on structures the first introducing the concepts underlying structural principles and underpins the following chapter that applies this knowledge to the various elements of a building Additional learning material such as plans and specifications is provided in the Appendices to assist with the understanding of examples and exercises in the text

CONCRETE Innovations in Materials, Design and Structures FIB – International Federation for Structural Concrete, 2019-05-27 This Proceedings contains the papers of the fib Symposium CONCRETE Innovations in Materials Design and Structures which was held in May 2019 in Krak w Poland This annual symposium was co organised by the Cracow University of Technology The topics covered include Analysis and Design Sustainability Durability Structures Materials and Prefabrication The fib F d ration internationale du b ton is a not for profit association formed by 45 national member groups and approximately 1000 corporate and individual members The fib s mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical economic aesthetic and environmental performance of concrete construction The fib was formed in 1998 by the merger of the Euro International Committee for

Concrete the CEB and the International Federation for Prestressing the FIP These predecessor organizations existed independently since 1953 and 1952 respectively

**Design of post-installed and cast-in fastenings in concrete ,**  
**NEHRP Recommended Provisions (National Earthquake Hazards Reduction Program) for Seismic Regulations for New Buildings and Other Structures: Commentary** United States. Federal Emergency Management Agency, 2001

Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry

**Advances in Construction Materials 2007** Christian U. Grosse, 2007-08-14 This book addresses one of the most important material categories Materials used for constructions A large percentage of the gross national product of most countries goes into infrastructure and buildings This statement is true not only for the present but for most other periods in history and for most cultures This explains why understanding the behavior of construction materials has always been the object of intense investigations The construction industry consumes extreme volumes of material and the growing demand for quality and safety require continuous improvement of materials and material compositions A deep understanding of material behavior is essential to enable efficient construction light weight or heavily burdened structures ask for the development of innovative composites or new material compositions Rapid economic growth and a dense and growing population require sensitive and sustainable use of resources Finally efficient use of resources means extending the usage of existing structures so non destructive testing methods are needed to assess the safety and utility of these structures Civil Engineers and Material Scientists from all over the world are openly discussing ideas for new materials and for structural health monitoring Over the last decade many innovations have come to fruition primarily in the field of composites but also for improving the design of existing material This is especially true for concrete perhaps the most used material in the world broadening its range of applications and improving performance

**Connections between Steel and Concrete** Rolf Eligehausen, Werner Fuchs, Philipp Grosser, Giovacchino Genesio, 2012-02-27 Anchorage by fasteners and composite structures of steel and concrete have seen dramatic progress in research technology and application over the past decades The understanding of the fundamental principles underlying both disciplines has significantly improved Concurrently there has been rapid growth in

the development of sophisticated new products and the establishment of international directives and codes to ensure their safe and economical use in a wide range of engineered structures. Although they deal with very similar problems, the two disciplines have developed independently from each other. To optimize the use of composite structures and fastenings to concrete, however, it is necessary to have knowledge of both the local behavior of the fastening system and the global behavior of the structure. It became apparent that a forum offering the opportunity to expand and to exchange experience in the field of connecting steel and concrete would benefit all involved. Furthermore, this forum would aid in the rapid dissemination of new ideas, technologies, and solutions, as well as explore new areas of research. This book forms the Proceedings of the 2<sup>nd</sup> Symposium on Connections between Steel and Concrete. As the 1<sup>st</sup> Symposium in 2001, it brought together leading experts from all facets of the research, design, construction, and anchor manufacturing community from around the world. Their lectures covered the topics: test methods, behavior, and design; dynamic loading; shock; earthquake; fatigue; durability; exceptional applications; strengthening; and structures-related topics. In total, 129 papers are gathered in these 2 volumes.

**ACI Structural Journal**, 1995      **fib Model Code for Concrete Structures 2010**

fib - federation internationale du beton, 2013-12-04

The International Federation for Structural Concrete (fib) is a pre-normative organization. Pre-normative implies pioneering work in codification. This work has now been realized with the fib Model Code 2010. The objectives of the fib Model Code 2010 are to serve as a basis for future codes for concrete structures and present new developments with regard to concrete structures, structural materials, and new ideas in order to achieve optimum behaviour. The fib Model Code 2010 is now the most comprehensive code on concrete structures, including their complete life cycle: conceptual design, dimensioning, construction, conservation, and dismantlement. It is expected to become an important document for both national and international code committees, practitioners, and researchers. The fib Model Code 2010 was produced during the last ten years through an exceptional effort by Joost Walraven (Convener, Delft University of Technology, The Netherlands), Agnieszka Bigaj van Vliet (Technical Secretary, TNO Built Environment and Geosciences, The Netherlands), as well as experts out of 44 countries from five continents.

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