



**International  
Standard**

**ISO 15630-3**

**Steel for the reinforcement and  
prestressing of concrete — Test  
methods —**

**Part 3:  
Prestressing steel**

*Aciers pour l'armature et la précontrainte du béton — Méthodes  
d'essai —*

*Partie 3: Aciers de précontrainte*

**Fourth edition  
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# Iso 15630 3

**Malaysia. Jabatan Standard**



### **Iso 15630 3:**

Acceptance of Stay Cable Systems Using Prestressing Steels fib Fédération internationale du béton, 2005-01-01 This fib Recommendation gives technical guidelines regarding design testing acceptance installation qualification inspection and maintenance of stay cable systems using prestressing steels strands wires or bars as tensile elements which can be applied internationally This Recommendation is applicable for cable stayed bridges and other suspended structures such as roofs It may also be used for hangers in arch structures and as suspension cables as appropriate This Recommendation has been formulated by an international working group comprising more than 20 experts from administrative authorities universities laboratories owners structural designers suppliers of prestressing steels and stay cable suppliers The text has been written to cover best construction practices around the world and to provide material specifications that are considered to be the most advanced available at the time of preparing this text For ease of use for client designer and cable supplier the complex content has been arranged thematically according to the system components into chapters focusing on performance characteristics requirements and acceptance criteria Requirements and comments have been specified for all parties involved in design and construction in order to aim for a uniform and high quality and durability The interfaces to the structural designer are highlighted The essential subjects are Design and detailing of stay cables including saddles and damping devices Durability requirements and corrosion protection systems Requirements for the materials Testing requirements for the stay cables Installation tolerances qualification of companies and personnel Inspection maintenance and repair This Recommendation does not cover the technology of stay cables whose tensile elements are ropes locked coil cables etc or which consist of composite materials Nevertheless in many cases the specified performance criteria may also be applicable to these systems although numerical values given for the acceptance criteria may need to be adjusted For these systems it has been difficult to provide multiple protective layers similar to those specified for stay cables made from prestressing steel and therefore the quality of corrosion protection may not be equivalent While extradosed cables have similarities with stay cables generally agreed design and system acceptance criteria are not yet available and therefore this type of cable is not covered

**Acceptance of stay cable systems using prestressing steels** FIB - International Federation for Structural Concrete, 2019-03-01 Cable stayed structures have become increasingly popular over the last 30 years and have been used in all parts of the world Modern cable stayed bridges have a history of over 50 years and have been constructed with span lengths ranging from 15 m to over 1000 m Many long span cable stayed bridges have been built for railway and highway traffic applications Stay cables have also been used on pedestrian structures many of which are architecturally striking and have become landmark structures There is growing use in building structures particularly for cable supported roofs Most of the cable supported structures have been in the form of cable stayed bridges but in recent years extradosed bridges have seen increased popularity among the designers Led by the experience in Japan more than 200

extradosed bridges have been constructed worldwide in the past 15 years. The first edition of these fib recommendations was published as fib Bulletin 30 in 2005 and was the first specification published by fib for stay cable systems. This new bulletin has been updated based on Bulletin 30 with the aim to reflect the current state of the art and encompass the latest knowledge in cable systems. In addition, it has been the aspiration of Commission 5 and Task Group 5.5 to harmonize the guidance in this updated bulletin with other stay cable recommendations from around the world, including those from Europe, Japan, and the USA. This new bulletin is intended to supersede and replace fib Bulletin 30. It is recommended that it be used in lieu of fib Bulletin 30 for all future cable supported applications. The updated bulletin introduces several significant enhancements to the specifications. These recommendations are applicable to both stay cable and extradosed cable applications. In the past, there has been some debate over the boundary between cable stayed and extradosed bridges. This bulletin presents a new continuous approach valid for both. A completely new testing requirement to assess the performance of cable systems under bending fatigue, including both anchorages and saddles, if applicable, has been added. Testing requirements for saddle systems have been reformulated. In addition to the bending fatigue test noted above, new testing procedures for stay cable saddles with isolated tensile elements are introduced. This includes tests for saddle axial fatigue, friction, and tensile testing, and determination of the effective saddle friction coefficient. Expanded system qualification, including requirements for both stay cable and extradosed applications, includes new provisions for MTE qualification and additional load transferring connection devices. Minimum number of tests is specified for each. A new in situ damping measurement test has been added to verify the actual damping ratio of the damping devices installed. By testing on site, selected cables may be excited to vibrate without and with the damping devices so that the observed vibration behaviour can be compared to the specified value. Other revisions have been made to reflect the current state of practice. Expanded quality control testing requirements. Inclusion of epoxy coated prestressing steel as a protection layer. Previous recommendations only considered zinc coatings. Specifications for epoxy coating material are given. Requirements for stainless steel components such as pipes, caps, and plates. Updated guidance for designing lightning protection systems. Detailed recommendations for different levels of inspection of cable systems, including initial routine, detailed, and exceptional inspections. An updated list of references, relevant standards, and extended literature.

**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 **Model Code 2010 - Final draft** fib Fédération internationale du béton,2012-01-01 The objectives of MC2010 are to a serve as a basis for future codes for concrete structures and b present new developments with regard to concrete structures structural materials and new ideas in order to achieve optimum behaviour MC2010 includes the whole life cycle of a concrete structure from design and construction to conservation assessment maintenance strengthening and dismantlement in one code for buildings bridges and other civil engineering structures Design is largely based on performance requirements The chapter on materials is extended with new types of concrete and reinforcement such as fibres and non metallic reinforcements The fib Model Code 2010 also gives corresponding explanations in a separate column of the document Additionally MC2010 is supported by background documents that have already been or will soon be published in fib bulletins and journal articles MC2010 is now the most comprehensive code on concrete structures including their complete life cycle conceptual design dimensioning construction conservation and dismantlement **Steel for the Reinforcement and Prestressing of Concrete** Malaysia. Jabatan Standard,2009 **Precast Concrete** Maurice Levitt,2014-04-21 This general treatise on precast concrete reflects Maurice Levitt s extensive experience in the construction industry and as a researcher and consultant It gives detailed coverage of the subject from the material s properties through its manufacture and quality control and on to specialist topics such as accelerated curing and use in hot and cold **ISO Catalogue** International Organization for Standardization,2007 **PN-EN ISO 15630-3** Polski Komitet Normalizacyjny,2019 *Catalogue* International Organization for Standardization,2003 *Hotărâri ale guvernului României și alte acte normative* Romania,2012 **DIN EN ISO 15630-3, Stähle für die Bewehrung und das Vorspannen von Beton - Prüfverfahren. Teil 3, Spannstähe (ISO 15630-3:2019, korrigierte Fassung 2019-10)** ,2020 **Standards Catalogue** ,1998 **Službene novine Federacije Bosne i Hercegovine** Bosnia and Herzegovina,2008 **DIN EN ISO 15630-3, Stahl für die Bewehrung und das Vorspannen von Beton - Prüfverfahren. Teil 3, Spannstahl (ISO/DIS 15630-3:2024)** ,2024 **DS/EN ISO 15630-3** Dansk Standard,2010 *Bibliografía española* ,2004 □□□□ ,2008 **BSI Standards Catalogue** ,1997 **Държавен вестник - Народна Република България** Bulgaria,2005 Includes legislation **Catalogue** Bureau of Indian Standards,2010

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