



**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  
2025-06**

# Iso 15630 3

**JL Elias**



### **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

Steel for the Reinforcement and Prestressing of Concrete Malaysia. Jabatan Standard,2009 **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

**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

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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

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## **Table of Contents Iso 15630 3**

1. Understanding the eBook Iso 15630 3
  - The Rise of Digital Reading Iso 15630 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Iso 15630 3
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Iso 15630 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iso 15630 3
  - Personalized Recommendations
  - Iso 15630 3 User Reviews and Ratings
  - Iso 15630 3 and Bestseller Lists
5. Accessing Iso 15630 3 Free and Paid eBooks

- Iso 15630 3 Public Domain eBooks
  - Iso 15630 3 eBook Subscription Services
  - Iso 15630 3 Budget-Friendly Options
6. Navigating Iso 15630 3 eBook Formats
    - ePub, PDF, MOBI, and More
    - Iso 15630 3 Compatibility with Devices
    - Iso 15630 3 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Iso 15630 3
    - Highlighting and Note-Taking Iso 15630 3
    - Interactive Elements Iso 15630 3
  8. Staying Engaged with Iso 15630 3
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Iso 15630 3
  9. Balancing eBooks and Physical Books Iso 15630 3
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Iso 15630 3
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Iso 15630 3
    - Setting Reading Goals Iso 15630 3
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Iso 15630 3
    - Fact-Checking eBook Content of Iso 15630 3
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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