

precast erectors manual

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Discover the essential precast erectors manual, offering comprehensive guidance for safe and efficient precast concrete installation. This guide covers vital erection procedures, best practices, and critical safety protocols for all types of precast components, ensuring successful project completion and compliance.

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Erector's Manual

In 1994 fib Commission 6: Prefabrication edited a successful Planning and Design Handbook that ran to approximately 45,000 copies and was published in Spanish and German. Nearly 20 years later Bulletin 74 brings that first publication up to date. It offers a synthesis of the latest structural design knowledge about precast building structures against the background of 21st century technological innovations in materials, production and construction. With it, we hope to help architects and engineers achieve a full understanding of precast concrete building structures, the possibilities they offer and their specific design philosophy. It was principally written for non-seismic structures. The handbook contains eleven chapters, each dealing with a specific aspect of precast building structures. The first chapter of the handbook highlights best practice opportunities that will enable architects, design engineers and contractors to work together towards finding efficient solutions, which is something unique to precast concrete buildings. The second chapter offers basic design recommendations that take into account the possibilities, restrictions and advantages of precast concrete, along with its detailing, manufacture, transport, erection and serviceability stages. Chapter three describes the precast solutions for the most common types of buildings such as offices, sports stadiums, residential buildings, hotels, industrial warehouses and car parks. Different application possibilities are explored to teach us which types of precast units are commonly used in all those situations. Chapter four covers the basic design principles and systems related to stability. Precast concrete structures should be designed according to a specific stability concept, unlike cast in-situ structures. Chapter five discusses structural connections. Chapters six to nine address the four most commonly used systems or subsystems of precast concrete in buildings, namely, portal and skeletal structures, wall-frame structures, floor and roof structures and architectural concrete facades. In chapter ten the design and detailing of a number of specific construction details in precast elements are discussed, for example, supports, corbels, openings and cutouts in the units, special features related to the detailing of the reinforcement, and so forth. Chapter eleven gives guidelines for the fire design of precast concrete structures. The handbook concludes with a list of references to good literature on precast concrete construction.

Recommended Practice for Erection of Precast Concrete

This book "is neither a standard nor a textbook, but rather a reference document recommending good practice in precast construction to designers, engineers, architects, builders and students. It provides guidance for those involved in the design, specification, manufacture and installation of precast concrete." -- page iii.

Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products

The comprehensive guide to construction tolerances, newly revised and updated How much may a steel frame be out of plumb? What are the expected variations of a precast concrete panel? What is required to successfully detail finish materials on masonry? Updating and expanding on its popular first edition, the Handbook of Construction Tolerances, Second Edition remains the only comprehensive reference to the thousands of industry standard tolerances for the manufacture, fabrication, and installation of construction materials and components-- including all-important accumulated dimensional variations. Covering new materials and techniques developed since the book was first published, the Second Edition of this easy-to-use reference features: * More than 100 drawings illustrating the tolerance concepts * New sections on measuring compliance with tolerance standards; right-of-way construction; autoclaved aerated concrete; tilt-up concrete panels; interior stone wall cladding; structural insulated panels; decorative architectural glass; laminated architectural flat glass and bent glass * New guidelines on how to incorporate tolerance requirements in drawings and specifications * New information on how to apply tolerance information during contract administration With the Handbook, architects, engineers, contractors, interior designers, lawyers, and others involved in the construction industry will be armed with the information they need to design and detail more accurately, write better specifications, establish normal practice and standards of care, supervise construction, settle worksite disputes, and save time and money at every stage of building.

Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products

This second edition of Precast Concrete Structures introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2, before going into the detail of the design, manufacture, and construction of precast concrete multi-storey buildings. Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys. The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements, composite construction, joints and connections and frame stability, together with extensive specifications for precast concrete structures. The book is extensively illustrated with over 500 photographs and line drawings.

Applications of Precast Concrete in Repair and Replacement of Civil Works Structures

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the Concrete Construction Engineering Handbook covers the entire range of issues pertaining to the construction

PCI Design Handbook

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Planning and design handbook on precast building structures

Provides structural engineers, architects, contractors, and professionals who are only occasionally engaged in building design and construction, with samples of contract drawings for commercial

construction projects that illustrate the necessary structural details. Explains what should be shown and specified, and the conventions for doing so in accompanying text and notes. Covers foundations, concrete, masonry, steel, and timber. Assumes readers already know how to render the drawings, either by hand or computer. No bibliography. Annotation copyrighted by Book News, Inc., Portland, OR

Structural Precast Concrete Handbook

There has been continued global growth in tall building construction over recent years. The variation in the use of such buildings is remarkable, from lavish hotels and apartments to socially affordable units. As the world struggles to cope with growing numbers of people, dwindling resources and movements from rural to urban habitats it is unavoidable that population densities will increase, and more efficient use of scarce land will be needed. Taller buildings are the inevitable consequence. Tall buildings can use several different types of material to form their framework and envelope. Those materials are mixed to provide an optimum building solution to suit client requirements such as structure, occupancy, vision, affordability, timing, sustainability and quality. Precast concrete is one of those materials, and has been used from whole frameworks to facades, and elements mixed with structural steelwork and cast in place concrete. This state of the art report shows how precast concrete can be effectively integrated into tall buildings using modern materials and techniques, drawing on the experience and expertise that is currently available in the global precast concrete industry. The report is aimed at not only building professionals and students, but also at contractors, investors, owners, public bodies and any other parties interested in the possibilities for use of precast concrete in tall building construction. Extensive case studies at the end of the Bulletin illustrate the benefits and applications discussed in the earlier chapters.

Precast Concrete Handbook

Tender prices performed strongly again in 2016, with a provisional rate increase of 10.3% versus a year earlier. SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2017 from AECOM gives costs for both general and civil engineering works and highway works. It provides a full breakdown of labour, plant and material elements, with labour rates updated. It is an essential component of infrastructure estimating maturity, benchmarking and cost intelligence, and gives sound guidance for estimators, contractors and clients. This 31st edition incorporates a comprehensive review throughout: Plant and materials have increased, though not as significantly as labour rates. Some item descriptions have been revised to reflect prices in the global market. And in detail: A revised structure for manhole construction to show detailed build-up. New prices for pre-cast manholes with monolithic precast concrete bases. Updated rail supply and installation rates and a few more added items. Revised piling rates and descriptions. Highway pipe rates adjusted to reflect current market specifications and materials. Revised steel works prices to reflect deflation in this sector. Use the access code inside the front cover of the book to get set up with internet access to this edition until the end of December 2017. We now provide a VitalSource® ebook, giving a versatile and powerful online data viewing package. In a time when it is essential to gain 'competitive advantage' in a congested market, this price book provides instant-access cost information and forms a one-stop reference. ... along with the standard features you have come to expect from SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK: for budgeting: estimating principles, on-cost advice, method-related charges for resource costings: labour costs, plant costs, material prices for rapid cost information: approximate estimates, dayworks, cost indices for plant and labour allowances: production rates, outputs, man hour constants for detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs for incidental advice: tables and formulae, technical information, professional advice updated, free of charge, two or three times a year – see inside for registration details. Updates are available online at www.pricebooks.co.uk

Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products

In 1986, the FIP Commission on Prefabrication issued the state-of-art report "Concrete Railway Sleepers\

Precast Concrete Handbook

This book provides practical and buildable solutions for the design of foundations for housing and other low-rise buildings, especially those on abnormal or poor ground. A wealth of expert information and advice is brought together dealing with the key aspects a designer must consider in order to achieve

effective and economic foundation designs. This second edition of Structural Foundations Manual for Low-Rise Buildings has been completely updated in line with the new government guidelines on contaminated land and brown-field sites. The book includes well-detailed design solutions and calculations, actual case histories, illustrations, design charts and check lists, making it a user-friendly reference for contractors, structural engineers, architects and students who have to deal with foundations for low-rise buildings on sites with difficult ground conditions.

Precast Concrete: Handling and Erection

USER Manual for Calculating the Lateral Stability of Precast, Prestressed Concrete Bridge Girders, CB-04-20, provides context and instructions for the use of the 2019 version of the Microsoft Excel workbook to analyze lateral stability of precast, prestressed concrete bridge products. The free distribution of this publication includes a simple method to record contact information for the persons who receive the workbook program so that they can be notified of updates or revisions when necessary. There is no cost for downloading the program. This product works directly with the PCI document entitled Recommended Practice for Lateral Stability of Precast, Prestressed Concrete Bridge Girders, PCI publication CB-02-16, which is referenced in the AASHTO LRFD Bridge Design Specification. To promote broader use of the example template, PCI developed a concatenated Microsoft Excel spreadsheet program where users may customize inputs for a specific component design according to regional girder products.

Manual of Precast Concrete Construction... V.1: Principles, Roof and Floor Units, Wall Panels

PCI Connections Manual for Precast and Prestressed Concrete Construction