

# KNIFE RIVER'S STATE-OF-THE- ART PRECAST CONCRETE FACILITY



Minnesota Concrete Technology



# The Art Of Precast Concrete

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## **The Art Of Precast Concrete:**

The Art of Precast Concrete David Bennett,2005-08-26 As a building material precast concrete allows a wide range of sculptural forms and design options By treating the surface in various ways fascinating textures and fine finishes can be produced This book provides a systematic overview of the variety of applications for such concrete elements throughout Europe Author David Bennett provides in depth information on newly developed especially lightweight forms of concrete such as GRC Glass Fibre Reinforced Concrete Ductal and CRC Compact Reinforced Composite A selection of some 24 projects which are of particular significance are documented in detail and provide a wealth of inspiring design ideas The appendix comprises an overview of the building practices in the individual European countries and the availability of concrete elements Amongst the buildings documented are the Scottish Parliament Building in Edinburgh by Enric Miralles Benedetta Tagliabue the Synagogue in Dresden by Wandel Hoefer Lorch Hirsch and the Mexican Embassy in Berlin by Gonzlez de Le n Analysis of the State of the Art of Precast Concrete Bridge Substructure Systems Joshua T. Hewes,Arizona Laboratory for Applied Transportation Research,Arizona. Department of Transportation. Research Center,United States. Federal Highway Administration,2013 **State-of-the-art of Precast** Ahmad M. Abdel-Karim,Maher K. Tadros,1995

## **State-of-the-art of Precast\prestressed Concrete Spliced I-girder Bridges** Ahmad M. Abdel-Karim,1992

**Precast Concrete in Mixed Construction** fib Fédération internationale du béton,2002-01-01 The purpose of this publication is to show how precast concrete may be mixed in combination with other structural materials to maximise overall building performance The other materials are cast insitu concrete reinforced and post tensioned structural steelwork timber and glue laminated timber masonry in brickwork and blockwork glass and glazing The aim is to provide a companion volume to composite Floor Structures FIP 1998 and to show some of the many other ways that precast concrete can be used to advantage with other materials The term mixed precast construction is used to describe these other combinations The intention is not to discuss design calculations that is for a future fib Guide to good practice Instead the bulletin is meant as a State of art publication showing photographs sketches and details of precast concrete with other materials There are no design equations although some technical information on how to combine the materials e g bearings connections tolerances thermal and shrinkage effects etc is included if appropriate Thus the document focuses on the use of mixed construction in multistorey buildings offices housing grandstands parking garages and industrial warehouses etc i e on precast concrete as the main construction material and looks at the manner in which other materials can be integrated Chapter by chapter the strengths and weakness of each material studied are assessed as part of the total building design In some cases it is obvious that the load carrying performance of one material outweighs another In other cases aspects such as thermal fire vibration fatigue creep acoustic seismic and visual characteristics and the geographical local availability of that material may be critical A world wide survey presented in Table 1 1 found that precast concrete is a universal building material but mixed

construction is limited mostly to developed countries where structural steelwork and types of timber such as glue laminated timber is readily available In addition there may be design detailing production transportation erection and maintenance limitations which do or do not favour mixed construction     *State-of-the-art of Precast/prestressed Concrete Spliced I-girder Bridges* ,1992     *Precast Concrete Piles* Bengt H. Fellenius,American Society of Civil Engineers,1975

**State-of The-art Report on Precast Concrete Pavements** Precast/Prestressed Concrete Institute,United States. Federal Highway Administration,2012 This publication is a combination of four documents on the use of precast concrete pavement systems PCPS and constitutes a state of the art report on this topic The documents were developed through a cooperative agreement between the Precast Prestressed Concrete Institute PCI and the Federal Highway Administration FHWA The topics include

Applications for Precast Concrete Pavements Design and Maintenance of Precast Concrete Pavements Manufacture of Precast Concrete Pavement Panels and Construction of Precast Concrete Pavement Publisher s website     *Seismic Design of Precast Concrete Building Structures* fib Fédération internationale du béton,2003-01-01 The aim of this state of art report is to present current practices for use of precast and prestressed concrete in countries in seismic regions to recommend good practice and to discuss current developments The report has been drafted by 30 contributors from nine different countries This state of art report covers state of the practice in various countries advantages and disadvantages of incorporating precast reinforced and prestressed concrete in construction lessons learned from previous earthquakes construction concepts design approaches primary lateral load resisting systems precast and prestressed concrete frame systems and structural walls including dual systems diaphragms of precast and prestressed concrete floor units modelling and analytical methods gravity load resisting systems foundations and miscellaneous elements shells folded plates stairs and architectural cladding panels Design equations are reported where necessary but the emphasis is on principles Ordinary cast in place reinforced concrete is not considered in this report This fib state of the art report is intended to assist designers and constructors to provide safe and economical applications of structural precast concrete and at the same time to allow innovation in design and construction to continue This Bulletin N 27 was approved as an fib state of art report in autumn 2002 byfib Commission 7 Seismic design

**State-Of-the-Art Report on Seismic Design of Precast Concrete Bridges**

Precast,2025-02-28 The Bridge Design Manual Fourth Edition Chapter 15 includes many new examples which reference the latest research in seismic design It Chapter 15 was also reorganized moving background information into an appendix to simplify its use

Precast-concrete buildings in seismic areas FIB - Féd. Int. du Béton,2016 This document has a broad scope and is not focussed on design issues Precast construction under seismic conditions is treated as a whole The main principles of seismic design of different structural systems their behavior and their construction techniques are presented through rules construction steps and sequences procedures and details that should lead to precast structures built in seismic areas complying with the fundamental performance requirements of collapse prevention and life safety in major earthquakes

and limited damage in more frequent earthquakes The content of this document is largely limited to conventional precast construction and although some information is provided on the well known PRESSS technology jointed ductile dry connections this latter solution is not treated in detail in this document The general overview contained in this document of alternative structural systems and connection solutions available to achieve desired performance levels intends to provide engineers architects clients and end users in general with a better appreciation of the wide range of applications that modern precast concrete technology can have in various types of construction from industrial to commercial as well as residential Lastly the emphasis on practical aspects from conceptual design to connection detailing aims to help engineers to move away from the habit of blindly following prescriptive codes in their design but instead go back to basic principles in order to achieve a more robust understanding and thus control of the seismic behaviour of the structural system as a whole as well as of its components and individual connections

Precast Concrete Pipe Durability Mike Bealey,1984\* **The Art of**

**Reading Buildings** John Mittendorf,Dave Dodson,2015-01-07 The Art of Reading Buildings focuses on the practical art of reading a building and applying its positive and negative attributes in developing a size up for fireground operations that center on structure fires First due company officers incident commanders and safety officers will appreciate the practical street wise lessons captured in the book Chief officers training officers engineers firefighters and fire science degree candidates will benefit from the wide range of building construction topics covered in this text Features include Understand the technical and practical aspects of building construction Learn on the spot building construction assessment using the authors custom Rapid Street Read Guides Develop a quick construction size up for immediate application to fireground operations Recognize firefighter traps in newer and alternative construction methods This text covers objectives for the National Fire Academy s Fire and Emergency Services in Higher Education FESHE Building Construction for Fire Protection course

**Design of precast concrete structures against accidental actions** fib Fédération internationale du béton,2012-01-01 Since the 1980 s several buildings throughout the world have been subject to gas explosions impact by cars or airplanes or car bomb attacks In many cases the effect of the impact or explosion has been the failure of a critical structural member at the perimeter of the building After the failure the load supported by that member could not be redistributed and part or all of the structure has collapsed in a progressive manner The phenomenon that occurs when local failure is not confined to the area of initial distress and spreads horizontally and or vertically through the structure is termed progressive collapse Progressive collapse is a relatively rare event as it requires both an accidental action to cause local damage and a structure that lacks adequate continuity ductility and redundancy to prevent the spread of damage It is technically very difficult and economically prohibitive to design buildings for absolute safety However it is possible to construct precast concrete buildings that afford an acceptable degree of safety with regard to accidental actions A structure is normally designed to respond properly without damage under normal load conditions but local and or global damages

cannot be avoided under the effect of an unexpected but moderate degree of accidental overload Properly designed and constructed structures usually possess reasonable probability not to collapse catastrophically under such loads depending on different factors for example the type of loading the degree and the location of accidental loading in regard to the structure and its structural members the type of structural system the construction technology and the spans between structural vertical members etc No structure can be expected to be totally resistant to actions arising from an unexpected and extreme cause but it should not be damaged to an extent that is disproportionate to the original cause The aim of fib Bulletin 63 is to summarize the present knowledge on the subject and to provide guidance for the design of precast structures against progressive collapse This is addressed in terms of a the classification of the actions b their effect on the structural types c the strategies to cope with such actions d the design methods and e some typical detailing all supplemented with illustrations from around the world and some model calculations

### **The State of the Art of Precast/prestressed Integral Bridges**

Roy L. Eriksson,2001    **Precast concrete construction** Nzube Jibuike Onochie,1985    The Art and Science of Structural Concrete Design S. Ali Mirza,2003    Precast Concrete in Tall Buildings FIB - International Federation for Structural Concrete,2021-12-01 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    *Architectural Precast Concrete ,1989* Includes information on design concepts esthetics cost factor and the use of precast concrete among other topics

**Tunnels and Underground Cities. Engineering and Innovation Meet Archaeology, Architecture and Art** Daniele Peila, Giulia Viggiani, Tarcisio Celestino,2019-04-17 Tunnels and Underground Cities Engineering and Innovation meet Archaeology Architecture and Art contains the contributions presented at the World Tunnel Congress 2019 Naples Italy 3 9 May 2019 The use of underground space is continuing to grow due to global urbanization public demand for efficient

transportation and energy saving production and distribution The growing need for space at ground level along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives demand greater and better use of the underground space to ensure that it supports sustainable resilient and more liveable cities This vision was the source of inspiration for the design of the logos of both the International ITA and Italian SIG Tunnelling Association By placing key infrastructures underground the black circle in the logos it will be possible to preserve and enhance the quality of the space at ground level the green line In order to consider and value underground space usage together with human and social needs engineers architects and artists will have to learn to collaborate and develop an interdisciplinary design approach that addresses functionality safety aesthetics and quality of life and adaptability to future and varied functions The 700 contributions cover a wide range of topics from more traditional subjects connected to technical challenges of design and construction of underground works with emphasis on innovation in tunneling engineering to less conventional and archetypically Italian themes such as archaeology architecture and art The book has the following main themes Archaeology Architecture and Art in underground construction Environment sustainability in underground construction Geological and geotechnical knowledge and requirements for project implementation Ground improvement in underground constructions Innovation in underground engineering materials and equipment Long and deep tunnels Public communication and awareness Risk management contracts and financial aspects Safety in underground construction Strategic use of underground space for resilient cities Urban tunnels Tunnels and Underground Cities Engineering and Innovation meet Archaeology Architecture and Art is a valuable reference text for tunneling specialists owners engineers architects and others involved in underground planning design and building around the world and for academics who are interested in underground constructions and geotechnics

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **The Art Of Precast Concrete**

In a world inundated with monitors and the cacophony of instantaneous transmission, the profound energy and mental resonance of verbal beauty often disappear into obscurity, eclipsed by the constant assault of sound and distractions. However, nestled within the musical pages of **The Art Of Precast Concrete**, a fascinating work of literary elegance that pulses with fresh thoughts, lies an remarkable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, this enchanting opus guides readers on a psychological odyssey, lightly exposing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is main subjects, dissect their fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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