



Precast Concrete In Architecture

Catherine Croft



Precast Concrete In Architecture:

Precast Concrete in Architecture Anthony Edwin James Morris,1978 Architecture in Precast Concrete ,1999

Precast Concrete Structures Kim S. Elliott,2019-08-08 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 *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 Gonz lez de Le n **Concrete** Martin Peck,2012-12-17 Concrete design and build with the construction material of the future With its virtually infinite plasticity its constructional versatility and its simple and straightforward building technology concrete is the building material of the present In addition to careful design and constructional planning the invitation of bids and the building contract are the keys to a successful implementation Building with Concrete provides the basic information needed to work with the material with special attention to the architect s role in planning and construction management It describes current trends in concrete technology and the development of innovative new types of concrete with firsthand reports by architects in the field It also describes the new version of the DBV BDZ data sheet Exposed Concrete Architectural Precast Concrete ,1989 Includes information on design concepts esthetics cost factor and the use of precast concrete among other topics Cast in Concrete Susan Dawson,1995 Planning and design handbook on precast building structures FIB - Féd. Int. du Béton,2014 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.

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 *PCI Design Handbook* Precast/Prestressed Concrete Institute,1992 *Architectural Precast Concrete Drafting Handbook* Prestressed Concrete Institute. Committee on Architectural Precast Concrete Shop Drawings,1975 **Precast Concrete Structures** Kim Elliott,2002-04-17 Precast Concrete Structures introduces the subject in detail looking at the design process manufacture and construction using precast concrete for multi storey buildings Detailed structural analysis of the material and its use is provided The theory is supported by practical case studies and worked examples There are explanatory illustrations throughout Endorsed by the British Precast Concrete Federation and written by an acknowledged authority this is the first book to explain and educate the student in the uses and advantages of precast concrete *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 Precast Concrete A.M.

Haas,1983-11-01 *Structural Connections for Precast Concrete Buildings* fib Fédération internationale du béton,2008-01-01 Connections are among the most essential parts in precast structures Their performance relates to the structural limit states as well as to manufacture of the precast elements and erection and maintenance of the structure itself Proper design of connections is one major key to a successful prefabrication The principal aim of fib Bulletin 43 is to encourage good practice in the design of structural connections in precast concrete structures This is achieved through a good understanding of structural connections as parts of the overall structural system and of basic force transferring mechanisms The bulletin consists of two parts the first part concerns general considerations and philosophy in the design of structural connections and the second part deals with basic force transferring mechanisms within structural connections The main focus is on the design of structural connections with regard to their structural function in ordinary design situations in the serviceability and ultimate limit states and in accidental abnormal design situations like fire lack of fit and impact accidental loads Other aspects considered include production handling and site erection of elements building physics durability and maintenance Bulletin 43 applies to structural connections for precast concrete buildings although the information on basic force transfer mechanisms can also be applicable to other types of prefabricated structures *Quality in Precast Concrete* John George Richardson,1991 *Concrete Architecture* Catherine Croft,2004 Inspiration for architects and urban planners this text presents a re evaluation of a material finally coming into its own in the 21st century concrete The text is illustrated with projects from some of the biggest name architects around *Multi-Storey Precast Concrete Framed Structures* Kim S. Elliott,Colin Jolly,2013-10-07 Precast reinforced and prestressed concrete frames provide a high strength stable durable and robust solution for any multi storey structure and are widely regarded as a high quality economic and architecturally versatile technology for the construction of multi storey buildings The resulting buildings satisfy a wide range of commercial and industrial needs Precast concrete buildings behave in a different way to those where the concrete is cast in situ with the components subject to different forces and movements These factors are explored in detail in the second edition of Multi Storey Precast Concrete Framed Structures providing a detailed understanding of the procedures involved in precast structural design This new edition has been fully updated to reflect recent developments and includes many structural calculations based on EUROCODE standards These are shown in parallel with similar calculations based on British Standards to ensure the designer is fully aware of the differences required in designing to EUROCODE standards Civil and structural engineers as well as final year undergraduate and postgraduate students of civil and structural engineering will all find this book to be thorough overview of this important construction technology **Cast in Concrete** Susan Dawson,2003-01-01 **PCI Design Handbook** Leslie D. Martin,Christopher J. Perry,2004 The Sixth Edition provides easy to follow design procedures newly formatted numerical examples and both new and updated design aids using ASCE 7 02 ACI 318 02 the third edition of the AISC Steel Manual and IBC 2003 It also includes new and updated information on 15 foot

wide double tee load tables seismic design torsion and shear design load and resistance factors headed stud connection design and fire resistance

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