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As a part of an innovation project funded by the Federal Highway Administration (FHWA) Highways for LIFE program, a full-depth precast, ultra-high-performance concrete (UHPC) waffle deck panel and appropriate connections suitable for field implementation of waffle decks were developed. This publication provides essential background information and

guidance on using three-dimensional (3-D) printed molds to fabricate precast concrete. Their advantages, requirements, applicability, and implementation are discussed, and a detailed case study shows how 3-D printed molds were used to produce precast concrete façade components for an actual construction project. The guide is an outcome of a collaboration between PCI and Oak Ridge National Laboratory. This publication will teach you the basics of how to start a Precast Concrete Products (wholesale) Business. With step by step guides and instructions, you will not only have a better understanding, but gain valuable knowledge of how to start a Precast Concrete Products (wholesale) Business. 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. This guide provides information for detailing precast concrete structures that should meet building code requirements for all seismic design categories by emulating cast-in-place reinforced concrete design. This guide also explains how emulative precast concrete structures can address the provisions of ACI 318-08, including those of Chapter 21, if special attention is directed to detailing the joints and splices between precast components. 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. This publication will teach you the basics of how to start a Precast Concrete Products Business. With step by step guides and instructions, you will not only have a better understanding, but gain valuable knowledge of how to start a Precast Concrete Products Business. The former FIP Commission Prefabrication drafted the FIP Recommendations on the design of Precast prestressed hollow core floors, published by FIP in 1988 (Telford, London,

ISBN 0-7277-1375-2). That document was highly appreciated by designers and public authorities because of the lack of guidance available elsewhere, especially with respect to some specific features of the product, for example the absence of transverse reinforcement. It has also served as a reference guide for national standards and especially for the CEN product standard on prestressed hollow core slabs. During the production of that report it was felt that some design rules were incomplete or missing. In addition, research carried out since has resulted in complementary knowledge on the behaviour of hollow core floors, for example in combination with slender floor beams. The present guide to good practice is intended to complement the existing recommendations. The research for the different items was carried out at Chalmers University of Technology (Sweden), Politecnico di Torino (Italy), VTT (Finland), University of Nottingham (United Kingdom), Building Research Institute (Poland), and the University of Rome (Italy).

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