

Bubble Deck Voided Flat Slab Solution

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BubbleDeck Voided Flat Slab Solutions Contents: in any way acts as a solid deck - and therefore will follow the same rules/regulations as a solid deck (with reduced mass), and further, leads to considerable savings Contents A Bending Strength and Deflection behaviour 3

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slab configuration given above; then add on the required total concrete cover (c t) from the table to arrive at the minimum BD voided slab thickness The required BubbleDeck slab type is the next size up from the minimum BD voided slab thickness As an example for a 9 metre span between columns with multiple spans and requiring 15

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Bubble Deck Voided Flat Slab BubbleDeck Voided Flat Slab Solutions Technology Concept - Bubbledeck All voided biaxial slabs incorporate an array of rigid void formers which contain air within the voids These void formers are most commonly made of plastic such as high-density polyethylene, and may use recycled materials The void formers are

A Voided Slab And Conventional Flat Slab A Comparative ...

A Voided Slab and Conventional Flat Slab; a Comparative Study Published on Jan 30, 2018 The Bubble Deck slab is a newly designed bi-axial concrete a-voided-slab-and-conventional-flat-slab-a-comparative-study 2/3

Bubble Deck Voided Flat Slab Solution

Bubble Deck Voided Flat Slab Solution called bubble deck system Bubble VOIDED SLAB - BUBBLE DECK TECHNOLOGY Bubble deck slab is a hollow, flat slab that spans in two directions, in which plastic balls are incorporated to replace, and therefore eliminate the concrete in the middle of

a conventional slab which does not contribute to its Page 10/24

An Introduction to Bubble-Voided Concrete Flat Slabs

The performance of bubble-voided flat slabs compared to same-thickness reinforced slabs has been researched thoroughly in Europe Tests performed in Denmark, Germany, and Holland revealed the bubble-voided flat slabs had a flexural stiffness about 90% that of a solid slab with

A Voided Slab and Conventional Flat Slab; A Comparative Study

This abstract deal with work carried out to compare the bubble deck voided slab system and conventional flat slab system by finite element analysis using SAP 2000 as well as manual calculation by Direct design method using IS456:2000 to study the behavior

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Analytical study of solid flat slab and voided slab using ...

Key Words: Solid Flat Slab, Voided Slab, Total Deformation, Long term deflection and live load deflection 1 INTRODUCTION The Bubble Deck slab is a revolutionary biaxial concrete floor system developed in Europe in1990 is by Jorgen Breuning The traditional Bubble Deck technology uses spheres made of recycled industrial plastic to create air

STUDY AND MODEL MAKING OF SLAB USING BUBBLE DECK ...

carried out and researchers suggest voided flat plate slab system to reduce thee self-weight of slab This technology is known as Bubble Deck technology The objective of this paper is to convey the recent advancements in civil construction and implementing the new technique of using high density

A Voided Slab And Conventional Flat Slab A Comparative ...

The Bubble Deck slab is a newly designed bi-axial concrete floor slab system This abstract deal with work carried out to compare the bubble deck voided slab system and conventional flat slab A Voided Slab and Conventional Flat Slab; a Comparative a voided slab and conventional flat slab a comparative study is available in our book

Structural Behavior of BubbleDeck* Slabs And Their ...

FIGURE 5-9: BRIDGE DECK FINITE ELEMENT MODEL OF SOLID SLAB (TOP), BUBBLEDECK (BOTTOM) - Two-way flat plate (biaxial slab)- There are no beams supporting the floor between the columns Instead, the slab is heavily reinforced with steel in both directions and voided biaxial concrete slab The BubbleDeck* technology uses spheres made of

BubbleDeck Design Guide for compliance with BCA using ...

- The stiffness of the slab is adjusted for both cracked and uncracked condition;
- The shear capacity is reduced in the voided areas of the slab; and
- The punching shear calculations are as for a flat slab, as the slab is left solid around the columns

The author of this paper recommends the designers follow the guidance of Eurocode 2

Structural Behaviour of Bubble Deck Slabs and Its ...

Bubble Deck Voided Flat Slab Solutions- Technical Manual and Documents (2007) [5] "BubbleDeck International "The Light weight Biaxial Slab" Bubble Deck(nd):1-4 [6] "BubbleDeck Tests and Reports summary " BubbleDeck Voided Flat Slab Solutions- Technical Manual and Documents!

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REVIEW ON BUBBLE DECK WITH SPHERICAL HOLLOW BALLS

The aim of this paper is to discuss about various significance of Bubble Deck Slab against Conventional Slab based on the various studies Voids in the middle of a flat slab eliminate up to 35% the performance of the voided slab is not as successful in a pedestrian bridge deck Bhagyashri G Bhade and SM Barelikar2016, AN Experimental

Voided Slab Design: Review Paper

of slabs, the voided slab system, was suggested II LITERATURE REVIEW A) Bubble Deck In the middle of 1990s, a new system was invented in Denmark by JorganBreuning to ensure the reduction of dead weight with more than 30% and allowing longer spans between supports which is called bubble deck system Bubble

Installation Guide and Specification

BubbleDeck ® Installation Guide / Specification Build more with less Page 2 P4-7-103 BubbleDeck Guide and Specification_rev1docx April 2012 Rev1 Introduction BubbleDeck is a structural voided flat slab system that reduces dead weight of a floor slab by up

Experimental Study on Bubble Deck Slab using Polypropylene ...

It was concluded that bubble deck slab obtaining a much-improved flexural capacity and stiffness and a shear capacity of at least 70% from that of a solid slab realizing 30-50% concrete economy in comparison with the solid slab The behavior of Bubble Deck slabs is influenced by the ratio of bubble diameter to slab thickness These bubble deck

Bubbledeck Slab Using Solid Balls Related Papers

and bubble deck flat slab this is a slab is prepared with specification with normal concrete of grade m30 by using hollow plastic balls pvc poly vinyl chloride experimental procedure bubble deck flat slab ss solid slab 264 nicacio et al technical paper bubbledeck voided flat slab solutions in this paper