

Bubble Deck Voided Flat Slab Solution

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Bubble Deck Voided Flat Slab

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

BubbleDeck Voided Flat Slab Solutions
) 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 1.5 hour fire resistance, span / effective depth ratio (R) will be 41, so 9 metres/41 = 219mm,

BubbleDeck Voided Flat Slab Solutions

BubbleDeck is the patented integration technique of linking air, steel, and concrete in a two-way structural slab. Hollow plastic balls are inserted into the slab and held in place by reinforcing steel. The end result eliminates the use of concrete that has little carrying effect while maintaining the two-way span (biaxial) strength.

BubbleDeck North America LLC - Advancing Concrete Design ...

A Voided Slab And Conventional The Bubble Deck slab is a newly designed bi-axial concrete floor slab system. High density polythene (HDPE) hollow spheres are placed in the center of slab by replacing the ineffective concrete to decrease its dead weight so increase the efficiency (PDF) A Voided Slab and Conventional Flat Slab; A ...

A Voided Slab And Conventional Flat Slab A Comparative Study

BubbleDeck International present the patented BubbleDeck system - the voided biaxial slab. Leaders in Lightweight construction and systems for concrete constructions. BubbleDeck International A/S (HQ in Denmark) is in charge of • Combining the international activities • Supervising the technical support / education • General quality ...

BubbleDeck International A/S, Resevangen 8, Farum (2020)

The BubbleDeck® system is based upon the patented integration technique – the The BubbleDeck® is a two-way hollow deck in which plastic balls serves the. Voided biaxial slabs are reinforced concrete slabs in which voids reduce the amount of . Due to the BubbleDeck technology’s green credentials, the use of the.

BUBBLEDECK TECHNOLOGY PDF

The reduced weight of the floor slab using voided slabs allows a reduction in concrete and steel in floors, columns, and footings, saving money and reducing the total building weight, allowing lighter foundations. Some voided-slab systems can reduce construction time, especially precast systems or those placed on flat-plate forming systems.

Voided-Slab Flat-Plate Floor Construction] Concrete ...

Bubble deck slab is a method of virtually eliminating all concrete from the middle of a floor slab, which is not performing any structural function, thereby dramatically reducing structural dead...

(PDF) Structural behavior of bubble deck slab

Flat concrete voided slabs simplify formwork by eliminating beams and the labor required to form them. The time savings created by the use of voided flat slabs, with their simplified formwork, clearly have a beneficial impact by improving project schedules. Simplifies forming. Faster framing cycles without beams.

VOIDED CONCRETE SLABS

Voided biaxial slabs, sometimes called biaxial slabs, are a type of reinforced concrete slab which incorporates air-filled voids to reduce the volume of concrete required. These voids enable cheaper construction and less environmental impact. Another major benefit of the system is its reduction in slab weight compared with regular solid decks.

Voided biaxial slab - Wikipedia

Bubble Deck is based on a new patented technique- the direct way of linking air and steel. Void formers in the middle of a flat slab eliminates 35% of a slabs self-weight removing constraints of high dead loads and short spans. Incorporation of recycled plastic bubbles as void formers permits 50% longer spans between columns.

Understanding the Concept of Bubble Deck - Civil Engineering

Bubble Deck, a unique light, biaxial concrete slab, is generally designed using the conventional design method. Bubble deck slab is a method of virtually eliminating all concrete from the middle of a floor slab, which is not performing any structural function, thereby dramatically reducing structural dead weight.

STUDY AND MODEL MAKING OF SLAB USING BUBBLE DECK TECHNOLOGY

In part, that's because the slab itself is not solid concrete but what is called voided biaxial slab, or bubble deck, construction. The PEX tubing was routed out of the six slabs through 71 different manifold cabinets with 634 circuits, or loops, of Wirsbo hePEX from Uponor.

University of Iowa Building Uses Thermally Activated ...

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 structural performance. Fig 1: Bubble Deck Slab

Bubble Deck Slab - Types, Material Specification ...

BubbleDeck is a slab system that has become very popular in Europe and around the world in the past decade. The system was invented in Denmark after a government sponsored competition looked for new ways to constructing buildings, and in particular new ways to enhance the flexibility and efficiency of de- sign using pre-fabricated techniques.

BubbleDeck Design Guide for compliance with BCA using ...

BubbleDeck - the Biaxial Hollow Slab. Architectural freedom, Flexibility in Design and Use, Fast and Inexpensive, Savings and Environmental Benefits.

BubbleDeck - the Biaxial Hollow Deck

A Bubble deck slab floor is a flat slab floor, therefore without beams and column heads. The principal characteristic is that hollow plastic spheres are incorporated in the floor, Clamped in a factory-made reinforcement structure. This reinforcement structure constitutes at the same time the upper and lower reinforcement of the concrete floor.

Bubble Deck Slab | Seminar Report, PPT, PDF for Civil ...

The BubbleDeck System is based upon patented integration technique - the direct way of linking air and steel. Void formers inside the flat slab eliminates at least 30% of a slab's dead weight. Find...

How BubbleDeck Works

The concept of bubble-voided flat slabs involves placing hollow recycled plastic shapes (typically spherical) in-between two layers of rebar, in the middle of a concrete slab (see Figure 2).