

## ***Bubble Deck Voided Flat Slab Solution***

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### **Bubble Deck Voided Flat Slab**

BubbleDeck will distribute the forces in a better way (an absolute optimum) than any other hollow floor structures. Because of the three-dimensional structure and the gentle graduated force flow, the hollow spheres will have ... BubbleDeck Voided Flat Slab Solutions ...

### **BubbleDeck Voided Flat Slab Solutions**

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 1.5

### **BubbleDeck Voided Flat Slab Solutions**

A two way spanning voided biaxial slab construction with spheres according to the BubbleDeck system, compared to older voided slab constructions: Acts like a solid slab. Does not have the earlier problems with reduced resistances towards shear, local punching and fire. In general. Benefits include:

### **Voided biaxial slab - Wikipedia**

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

### **An Introduction to Bubble-Voided Concrete Flat Slabs**

BubbleDeck Voided Flat Slab Solutions Technical Paper BubbleDeck® Span Guide August 2006 Revision 6.3 January 2009 BubbleDeck Maximum Indicative Spans The appropriate BubbleDeck slab version is bespoke engineered to suit building configuration, span length between supports, applied loadings and vertical alignment of supports.

### **Technical Paper BubbleDeck Voided Flat Slab Solutions - Academia.edu**

Plastic void systems. Two European companies now manufacture and sell systems in the U.S. for constructing voided slabs: Kirkland, Wash.-based GRAEF's BubbleDeck, and Cobiax, based in Switzerland, which is represented by Barker Steel (a Harris Rebar Co.), Milford, Mass.

### **Voided-Slab Flat-Plate Floor Construction| Concrete Construction Magazine | Slab, Jobsite Equipment, Concrete Construction, Cast-in-Place Concrete, Concrete, Metal, Reinforced Concrete, Arts and Culture, Milwaukee-Waukesha-West Allis, WI, Miami-Fort Lauderdale-Pompano Beach, FL, Dan Windorski, GRAEF Engineers, Cobiax, Concrete Reinforcing Steel Institute, CRSI, La Bahn Hockey Arena, University of Wisconsin, Miami Art Museum, Florida, Wisconsin**

Voided Concrete Slabs: Cobiax USA Inc. presents a voided slab technology that allows large spans, efficiently formed as flat plates without beams, for many types of buildings and other structures while using significantly less concrete than if solid. This is the most versatile voided slab system that allows builders to use less material and still maintain structural integrity.

### **Voided Concrete Slabs - Cobiax USA**

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. Incorporation of recycled plastic bubbles as void formers allows wider space between columns.

### **Technology Concept - Bubbledeck Construction Sdn Bhd**

The Original Voided Flat Slabs with the BubbleDeck® technology BubbleDeck Structure Solutions Product Introduction ... 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.

### **Product - BubbleDeck**

methods and wanted to know if the BubbleDeck system could achieve a span of over 12 metres. We were able to advise him a BubbleDeck solution could achieve this span and he can realise his project! This illustrates BubbleDeck is much more than a revolutionary flat slab floor and deck system but is a whole structure solution that releases

### **BubbleDeck Advanced Structure Engineering**

The use of solid flat slabs for the floor plates in the building necessitated the use of drop beams, creating unwanted increases in floor-to-floor heights. The decision was made to utilize a BubbleDeck plastic voided slab system, meaning that the beams would no longer be needed and the floor-to-floor heights could remain at a desired level.

### **Civil engineering : Plastic voided slab design by IS (456) code**

Structural behavior of bubble deck slab. ... Synopsis: Voided concrete flat plate slab systems, which have been used for many years in Europe and other parts of the world, are becoming ...

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