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A Voided Slab and Conventional Flat Slab; a Comparative Study Published on Jan 30, 2018 The Bubble Deck slab is a newly Page 1/5. Read PDF A Voided Slab And Conventional Flat Slab A Comparative Study designed bi-axial concrete floor slab system. High density

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Title: A Voided Slab And Conventional Flat Slab A Comparative Study
Author: Mandy Eberhart
Subject: A Voided Slab And Conventional Flat Slab A Comparative Study

A Voided Slab And Conventional Flat Slab A Comparative Study

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

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A Voided Slab and Conventional Flat Slab; A Comparative Study (IJSTE/ Volume 4 / Issue 1 / 007)

Fig. 5: Moment of Voided Flat Slab. Reaction The main purpose of to carry out results for reaction ...

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A Voided Slab And Conventional Voided Slab Design: Review Paper Abstract-A voided slab is a concept that simply removes the excess concrete from the expensive part of the structure slab It was invented by JorganBreuningof Denmark about 20 years ago

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Conventional slab carried the stress of about 3098 MPa by applying the udl load of about 340 kN ...

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a voided slab and conventional To avoid these limitations of conventional solid concrete slabs, the voided slab system is preferred. Another issue faced by traditional construction of slabs is the maximum span. Due to the relatively high density of the solid horizontal slabs, their span is limited.

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To find out weight reduction of voided slab, first find out the volume of solid slab and volume of circle.

Volume of solid slab is $V_s = b \times h \times h$ and $V_c = 4\pi r^3/3$

Where, b = Width of solid section surrounding a single sphere. h = Total thickness of the slab r = radius of circle The percentage weight reduction of voided slab is calculated as

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To avoid these limitations of conventional solid concrete slabs, the voided slab system is preferred. Another issue faced by traditional construction of slabs is the maximum span. Due to the relatively high density of the solid horizontal slabs, their span is limited. To overcome this issue, more reinforcement is designed for the slab.

Voided Concrete Slab System: Its Working, Properties, and ...

The main difference between flat slab & conventional slab-beam system is that the one is directly supported on the column while another system has a beam for

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Support. The load is transferred directly from slab to column in the flat slab. In conventional slab-beam system, the load is transferred from slab to beam and ultimately beam to the column.

Difference Between Flat Slab & Conventional Slab-Beam System

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. Up to 50%

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of the slab volume may be removed in voids, resulting in less load on structural members. This also allows increased weight and/or span, since t

Voided biaxial slab - Wikipedia

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Study
incorporate an array of rigid void formers which contain air within the voids. These void

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