

# A Voided Slab and Conventional Flat Slab; A Comparative Study

Sonal R. Naik

PG Student

Department of Civil Engineering  
Saraswati College of Engineering, Maharashtra, India

Dinesh Joshi

Professor

Department of Civil Engineering  
Saraswati College of Engineering, Maharashtra, India

## Abstract

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 of floor. 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 IS-456:2000 to study the behavior of bending moments, shear force, deflections and reactions due to change in span for various load conditions. The present study is carried out to study the seismic behavior of structure due to reduction in dead weight of structure by modelling and analysis of G+12 storey structure for 6m x 7m, 7m x 8m, 8m x 9m grid systems.

**Keywords:** Bubble Deck Voided Slab, SAP2000, Shear Force, Bending Moment

## I. INTRODUCTION

The flat plate floor systems are commonly used in multi-storey buildings, because flat plate floor system present advantages from technical and functional point of view. The self-weight of slab can reduce by replacing the middle height of the cross section of slab with void former. Actually, the concept of removing non-working concrete from slab cross section is quite old. The voided slab used in construction field more than 50 years. By introducing void former into the slab, self-weight of the slab can be reduce and this lead to reduction in overall cost of the slab. The overall weight of slab is decreasing as much as 35% compared to solid slab of same capacity. The main idea behind voided flat plate slab is to removing the unused concrete from the middle of the slab. The spherical balls, which are inserted in the middle of the flat plate slabs, are manufactured from recycled plastic, which do not react chemically with concrete or steel.

## II. LITERATURE REVIEW

Reshma Mathew and Bina.P (2006) studied the punching shear behavior of bubble deck slab compared to solid slab. The punching shear capacity of bubble deck slab is small in comparison with solid slab. Hence, the GFRP strips with various orientations are used as a strengthening system for bubble deck slab. Finite element analysis was carried out using ANSYS software. Strengthened slabs have higher punching capacity compared with control bubble deck slab. There is increment in load carrying capacity up to 20% due to strengthened bubble deck slab. By introducing HDPE balls of 180 mm diameter in to a flat slab of thickness 230mm can save the weight up to 23.62% around one ball.

M.Surendar and M.Ranjitham (2016) studied the analysis of bubble deck slab numerically as well as experimentally. For numerical study, the bubble deck slab and conventional slab is analyzed by using ANSYS software with appropriate support conditions and providing uniformly distributed loading. Also, for experimental investigation the test specimens were designed for two types of slabs, one for conventional one way RC slab and other were for one way bubble deck slab. The stress and deformation results were evaluated and compared the bubble deck slab with conventional slab were observed using finite element analysis. By numerical and experimental studies it is shows that the bubble deck slab can withstand 80% of stress when compared with conventional slab. Slight variation occurs in the deformation when compared with conventional slab. At last the comparison has been made for Bubble Deck Slab with the Conventional slab over its self-weight. From the evaluation of these results, Bubble Deck Slab gives better performance than that of the conventional slab.

P. Prabhu Teja et al (2012) discussed the various properties of Bubble deck slab based on the various studies done abroad. Moment, deflection and stress distributions are verified using Finite Element Method (FEM) in SAP2000. The finite element models of the office slabs created for this study in SAP2000 verify the prior analysis and experiments. It gives the bending stresses in the bubble deck slab are found to be 6.43% lesser than of a solid slab. Also, deflection of bubble deck is 5.88% more than the solid slab as the stiffness is reduced due to hollow portion. Further, the shear resistance of bubble deck slab is 0.6 times the shear resistance of the solid slab of same thickness. However required resistance can be achieved by providing vertical reinforcement.

Saifee Bhagat and Dr. K. B. Parikh (2014) studied the parameters of voided slab in terms of moment of inertia, shear capacity, stiffness reduction factor, weight reduction factor and compared with the flat plate slab. The voided flat plate slab and solid flat plate slab are considered with interior span ranging from 6m x 6m to 14m x 14m having thickness from 280mm to 600mm having

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### **Table of Contents A Voided Slab And Conventional Flat Slab A Comparative Study**

1. Understanding the eBook A Voided Slab And Conventional Flat Slab A Comparative Study
  - The Rise of Digital Reading A Voided Slab And Conventional Flat Slab A Comparative Study
  - Advantages of eBooks Over Traditional Books
2. Identifying A Voided Slab And Conventional Flat Slab A Comparative Study
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an A Voided Slab And Conventional Flat Slab A Comparative Study
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Voided Slab And Conventional Flat Slab A Comparative Study
  - Personalized Recommendations
  - A Voided Slab And Conventional Flat Slab A Comparative Study User Reviews and Ratings

## **A Voided Slab And Conventional Flat Slab A Comparative Study**

- A Voided Slab And Conventional Flat Slab A Comparative Study and Bestseller Lists
- 5. Accessing A Voided Slab And Conventional Flat Slab A Comparative Study Free and Paid eBooks
  - A Voided Slab And Conventional Flat Slab A Comparative Study Public Domain eBooks
  - A Voided Slab And Conventional Flat Slab A Comparative Study eBook Subscription Services
  - A Voided Slab And Conventional Flat Slab A Comparative Study Budget-Friendly Options
- 6. Navigating A Voided Slab And Conventional Flat Slab A Comparative Study eBook Formats
  - ePub, PDF, MOBI, and More
  - A Voided Slab And Conventional Flat Slab A Comparative Study Compatibility with Devices
  - A Voided Slab And Conventional Flat Slab A Comparative Study Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of A Voided Slab And Conventional Flat Slab A Comparative Study
  - Highlighting and Note-Taking A Voided Slab And Conventional Flat Slab A Comparative Study
  - Interactive Elements A Voided Slab And Conventional Flat Slab A Comparative Study
- 8. Staying Engaged with A Voided Slab And Conventional Flat Slab A Comparative Study
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers A Voided Slab And Conventional Flat Slab A Comparative Study
- 9. Balancing eBooks and Physical Books A Voided Slab And Conventional Flat Slab A Comparative Study
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection A Voided Slab And Conventional Flat Slab A Comparative Study
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine A Voided Slab And Conventional Flat Slab A Comparative Study
  - Setting Reading Goals A Voided Slab And Conventional Flat Slab A Comparative Study
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Voided Slab And Conventional Flat Slab A Comparative Study
  - Fact-Checking eBook Content of A Voided Slab And Conventional Flat Slab A Comparative Study
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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