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Raft Foundation Project Report

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making Process in
WIKI TOWER project

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Raft Foundation

Raft Foundation

Explained

How to Analyze and
Design 3D Building
with Raft Foundation by
ETABS mat foundation
design in STAAD

FOUNDATION

Foundation Design with
ProtaStructure 2019

What is Raft

Foundation? Raft

Foundation explained in

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details. What is Raft

Foundation? purpose of
Raft Foundation -

Design of Raft

Foundation When Mat

Foundation Required for

House? Raft Foundation

Why Plastic Provide in

Raft Foundation for

Building? Civil

Engineering Site

Construction site Video

Raft foundation or Mat

foundation details

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design | types of
foundations | Green
House ConstructionCSI
SAFE - 19 Mat or Raft
Foundation ~~Raft~~
~~foundation for garage~~
~~PART 1~~ Big Mistakes
in Column Raft
Foundation Concrete
Slab Foundation -
Process \u0026amp; Best
Practices RAFT
FOUNDATION
Reinforcement and

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Construction method |

Civil Engineering

Construction Raft

Foundation UK. Raft

System. Big Mistakes in

Raft Foundation / Mat

Foundation Mistakes on

Site ~~Foundation~~

~~Construction New Style~~

~~How To Build and~~

~~Setup a Concrete~~

~~Foundation For Houses~~

~~Part 1~~ Strip Foundation

Detail

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The Raft BuildFMG
Engineering - Common
Footing Types

Continuous Concrete
Pour (8100 M3
concrete) for Aster
Hospital Raft
Foundation, UAE,
DubaiRaft Foundation
Design in STAAD.Pro
~~Raft Foundation of
Tallest Building of
Delhi | Under
construction | Er.~~

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Raghvendra Raft

foundation construction
according to drawing

plan MAT/RAFT

FOUNDATION

DESIGN in SAFE -

PART 1 || Bangla

Tutorial || Soil Subgrade

Modulus Calculation

Design of Tower Crane

Foundations | Design

Principles \u0026amp;

Considerations

Wokeism at Work: How

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"Critical Theory\" and
Anti-Racism Training
Divide America How to
Make Your Life WORK
WELL? Jim Rohn

Motivation Raft

Foundation Project

Report

Raft foundation

Foundations provide
support for structures,
transferring their load to
layers of soil or rock
that have sufficient

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bearing capacity and suitable settlement characteristics. Very broadly, foundations can be categorised as shallow foundations or deep foundations.

Raft foundation -
Designing Buildings
Wiki

The raft foundation is a kind of combined footing that may cover

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the entire area under the structure supporting several columns in one rigid body. In this project, the soil profile shows that the bearing stress is around 100 kN/m². The raft foundation is usually used with this kind of soil. The columns have high axial loads.

Structural Design of

Page 12/36

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Raft Foundation

Raft foundation is a thick concrete slab reinforced with steel which covers the entire contact area of the structure like a thick floor. Sometimes area covered by raft may be greater than the contact area depending on the bearing capacity of the soil underneath.

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RAFT FOUNDATION
PPT - Easy Seminar
Topics & Project Ideas

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Report - vrcworks.net

Project Raft Foundation

Design for a Typical 2

Storey House Example

(BS8110 : PART 1 :

1997) Job Ref. Section

Civil & Geotechnical

Engineering Sheet

Page 17/36

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no./rev. 1 Calc. by
Dr.C.Sachpazis Date
23/04/2013 Chk'd by -
Date App'd by Date
Area of steel reqd in
bottom; $A_{sintbtmreq} =$
505 mm² Pass - $A_{sintbtmreq} \leq A_{sintbtm}$
- Area of reinforcement
provided in bottom of
internal beams is
adequate ...

RAFT FOUNDATION

Page 18/36

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DESIGN (BS8110 :

PART 1 : 1997)

Raft Foundations

Flooring grade

Insulation A142 mesh

1200g polythene DPM

linked to DPC 12mm Ø

mild steel bars Damp

Proof Course Notes 1.

Raft foundations can be

a suitable alternative if

traditional strip/trench

fill foundations cannot

be used. They are not

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suitable in all cases.

Specialist advice may have to be sought. 2.

These details assume that ground conditions permit the use of raft ...

Building Control Guidance Note 2 - Raft Foundations

A raft foundation spreads the weight of the building over the whole ground floor area

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of that building. The raft is laid on a hardcore, or scalping bed and usually thickened at the edges, especially in very poor ground. Rafts are most suitable when the ground is of good load bearing capacity and little work is required to get a solid foundation.

Raft Foundations |

Concrete Rafts |

Page 21/36

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Advantages and ...

Raft foundation transmits the total load from the building to the entire ground floor area. Stress distribution mechanism of raft foundation is very simple. Total weight of the structure and self-weight of the mat is calculated and is divided by the total area of the foundation it is covering

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to calculate the stress on
the soil.

Project Report

Raft Foundation - When
to Use, Types,
Construction - Civil ...

A raft foundation is a
reinforced concrete slab
under the whole of a
building or extension,
'floating' on the ground
as a raft floats on water.
This type of foundation
spreads the load of the

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Foundation Project Report
building over a larger area than other foundations, lowering the pressure on the ground.

Raft foundation basics | LABC

A raft foundation is a large concrete slab used to interface one column, or more than one column in several lines, with the base soil. It

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may encompass the entire foundation area or only a portion. The foundation's behavior is governed by two systems based on the soil properties which are rigid or flexible.

DEVELOPMENT OF
DESIGN WORK
SHEETS FOR
ANALYSIS AND
DESIGN ...

Page 25/36

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A raft foundation is also very good for basements. Foundations are created by excavating soil in order to find strong, compact, undisturbed natural soil that is at least a few feet below ground level.

This soil is much stronger than the loose soil at the surface.

Raft or Mat Foundations

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- Understand Building
Construction

Laying of Foundation

At our site, Raft

foundations are used to
spread the load from a
structure over a large
area, normally the entire
area of the structure.

Normally raft
foundation is used when
large load is to be
distributed and it is not
possible to provide

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individual footings due to space constraints that is they would overlap on each other.

Project Report □ Six
Months Summer
Training

Raft Foundation Raft
foundations are a type
of foundation with high
integrity in which four
foundation piers are
connected together

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using a large foundation slab to form a massive structure and the foundation piers are connected through beams. From: UHV Transmission Technology, 2018

Raft Foundation - an overview | ScienceDirect Topics
Raft foundations are shallow foundations,

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and are therefore not suitable for every building project. The advice of a building surveyor or structural engineer should always be sought before committing to a project. Generally speaking, for domestic projects that have low structural load and a fairly small surface area, raft foundations are ideal.

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Foundation

Raft Foundations for
Home Extensions

Explained | RPO

Raft foundation The extensive foundation (which is usually called raft foundation), is a unified foundation that extends throughout the entire area of the columns. As a rule, raft foundation is used as a building's foundation

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when the soil has a low bearing capacity. Form of soil pressure in a raft foundation

Raft foundation -

BuildingHow

Raft Foundation Design

General Considerations

A mat supported on strong bedrock transmits the load in a relatively small area near columns. The pressure

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distribution on raft foundation will be as shown Fig. 1 (a). If the mat rests on stiff or compact soils, the mat distributes the load to the subsoil in larger areas as shown in Fig. 1 (b).

Mat Foundation -
Engineering Projects
The raft foundation can
be placed directed on

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the soil or the rock whichever available and otherwise can also be supported on the piles.

In case of weak and expansive clays piles must be used for supporting the raft and in that case it is termed as piled raft foundation.

Advantages of Raft Foundation

Advantages and

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Disadvantages of Raft Foundation - Define Civil

Followings are the advantages of raft foundation: Mat foundation can be provided where the shallow foundation is necessary but soil condition is poor. It resists differential settlement. □ Mat foundation requires less

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earth excavation.
Foundation
Project Report

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