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Explained What is

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*purpose of Raft
Foundation -*

Design of Raft

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*Foundation Design
in STAAD.Pro*

Mod-01 Lec-15

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Foundation

Reinforcement

Drawing - Mat

Foundation

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*Drawing for 4
Storey Building
Foundations (Part
2): Pad Footings
under Axial Load*
~~Design Of RC
Columns (Part 3)
(Uni-Axial and Bi-
Axial Moments)~~
How to Design a
Strip Footing -
Structural Design
Part 1/2 Raft
foundation or Mat

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foundation details
design | types of
foundations |
Green House
Construction
Combined Footing
Design | with
Reinforcement
Details (with 3d
example)

When Mat
Foundation
Required for
House? Raft

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RAFT VS PILE
FOUNDATION , CT II
VIDEO

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**Sketchup - Beam
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foundation**

Raft
foundation
construction
according to
drawing plan

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Mat or Raft footing
all quantities
calculations with
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Reinforcement
Details on
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Steel Structure of
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Analysis , Design

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**and detailing of
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Subgrade

Modulus

Calculation *RAFT*

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to design raft

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~~according to the~~
~~Eurocode?~~ **Raft**

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Mechanics,

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Project: Raft
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recommended values. Job Ref.

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Table 3.8; 4 Design
concrete shear

strength; $v_c =$

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0.490 N/mm² BS8110

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BUILDING (BS8110

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Design hboot bboot

bedge aedge hslab

hhcoreslab

hhcorethick

Asedgetop

Aslabtop

Aslabbtm

Asedgebtm

Asedgelink Soil and

raft definition Soil

definition Allowable

bearing pressure; q

allow = 75.0 kN/m

2 Number of types

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of soil forming sub-
soil; Two or more
types Soil density;
Firm to ...

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...

**RAFT FOUNDATION
DESIGN (BS8110 :**

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(PART 1: 1997) Raft foundation is actually a thick concrete slab resting on a large area of soil reinforced with steel, supporting columns or walls and transfer loads from the structure to the soil Usually, mat

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TEDDS calculation

versio n 1.0.02;

Library item-Raft

title h edge b edge

a edge h slab h

hcoreslab h

hcorethick A

sslabtop ...

RAFT

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with edge wall load
example

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Relocation of
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INTRODUCTION
Slab design -
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1 1997 Author: dc-
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foundation, design,
bs8110, part, 1,
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Centroid of
longitudinal and
equivalent line
loads from outside
face of raft Load x

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distance for edge
load 1; Moment 1
 $= w_{ult} \times edge1 \times$
 $edge1 = 0.0 \text{ kN}$
Sum of ultimate
longitud'l and
equivalent line
loads; UDL = 5.6
kN/m

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Pad footing

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analysis and design
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Dr.C.Sach pazis

Date 23/05/2013

Chk'd by - Date

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Imposed axial load

on column; P QA =

165.0 kN Wind

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axial load on
column; $P_{WA} =$
0.0 kN Total axial
load on column; P
 $A = 365.0$ kN
Foundation loads
Dead ...

PAD FOOTING ANALYSIS AND DESIGN (BS8110-1:1997)

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Raft Foundations -
Methods and
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Conventional
Method of Raft
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Design2) Soil line

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Method (Elastic
Method) of Raft
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According to IS -
2950:1965, the
design criteria of
raft footings are
given below: The
maximum
differential

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settlement in
foundation on
clayey soils and
[...]

Design of Raft Foundations - Methods and Calculations

This includes how
to calculate elastic
co efficient &
modeling of Mat
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13.3.3.0 Why Raft should be used: If a single square footing need to be designed under the maximum axial load that is occurred in columns type 4. This foundation will be used for a loose sand soil. The properties used in the analysis and

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the design of this
raft foundation are
shown in table 4.

Structural Design of Raft Foundation

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