

# REVIEW MODULE - REINFORCED CONCRETE DESIGN (COLUMNS)



## CIRCULAR SECTIONS

$$r = \sqrt{\frac{I}{A}}$$

$$P_u = 1.4 P_{DL} + 1.7 P_{LL}$$

NSCP 404

$$r = \sqrt{\frac{\frac{\pi}{4} D^4}{\frac{\pi}{4} D^2}}$$

where:

$P_u$  = final factored load.

$P_{DL}$  = dead axial load.

$P_{LL}$  = live axial load.

$$r = \sqrt{\frac{D^2}{16}}$$

\* NOTE:

1. FOR DIMENSIONS OF COLUMN, ROUND UP.

$$r = \frac{D}{4} = 0.25D$$

2. FOR NUMBER OF STEEL BARS, ROUND UP.

$$r > 0.25D \rightarrow$$

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3. FOR SPACING OF BARS, ROUND DOWN.

## COLUMNS

## ULTIMATE STRENGTH DESIGN

## NSCP PROVISIONS

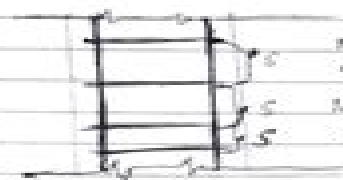
## I. SHORT COLUMNS (Axially Loaded Columns)

$$a. \frac{KL_u}{r} \leq 40 - 12 \frac{M_1}{M_2} \quad b_{\text{eff}} \leq b_{\text{min}}$$

## II. LONG COLUMNS (Eccentrically Loaded Columns)

$$a. \frac{KL_u}{r} > 40 - 12 \frac{M_1}{M_2} \quad b_{\text{eff}} > b_{\text{min}}$$

## SHORT TIED COLUMNS



Min. concrete cover = 40mm

Min. steel cover = 45mm

\* NOTE:

1. Design for

axial strength and ultimate load,  $P_u$ .

Tied Columns and Spiral Columns

\* NOTE:

1. 10 max  $\phi \leq 12$   
2. 12 max  $\phi \geq 12$

(ties)

3. 3 25  $\Delta$

(3)

## Without End-Moments

$$\frac{KL_u}{r} \leq 22$$

## Eccentrically Loaded Column

$$\frac{KL_u}{r} > 22$$

where:

$K$  = effective length factor.

$L_u$  = unbraced / unsupported length.

$r$  = radius of gyration.

$$r = \sqrt{\frac{I}{A}}$$

## RECTANGULAR SECTIONS

$$I = \frac{hb^3}{12} \quad ; \quad A = hb$$

$h$  = larger dimension.

$b$  = smaller dimension.

$$r = \sqrt{\frac{Kh^3/12}{Kh}}$$

$$r = \sqrt{\frac{b^2}{12}}$$

$$r = b \sqrt{\frac{1}{12}} \quad r \leq 0.25b$$

$$r = 0.25b \rightarrow$$

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*gas vacuum lines diagram 1999 2007 ford f250 super* - Jan 08 2023

web jun 1 2022 does anyone have a diagram of the vacuum lines coming of the vacuum cannister what i find on google is not helping me at all it is a ford f250 super duty with 5 4l

**vacuum diagrams where to find them ford truck enthusiasts forums** - Mar 10 2023

web jul 1 2021 received 47 likes on 33 posts vacuum diagrams where to find them curious if the vacuum diagrams for a 1975 f250 with a 360 2 barrel c6 transmission are anywhere to be found i have the ford factory manuals for 1975 trucks and i have not been able to locate any info on vacuum diagrams thanks