

# Steel Design - LRFD

## AISC Steel Manual 13th edition

### Column Design Tutorial

Professor Louie L. Yaw  
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## 1 Introduction

According to the LRFD methodology columns must be selected such that the following basic equation is satisfied:

$$\phi P_n \geq P_u$$

Therefore, column design requires the determination of  $\phi P_n$ . To do this, for a particular column, the slenderness,  $KL/r$ , of the column must be determined. This tutorial outlines the relevant information needed to obtain the column's governing slenderness and then subsequently determine  $\phi P_n$ .

## 2 Slenderness Ratio

Every column has a slenderness ratio calculated as  $KL/r$  where  $K$  is the effective length factor,  $L$  is the column length and  $r$  is the radius of gyration for the column cross-section about the axis that governs buckling. The slenderness ratio for compression members preferably should not exceed 200. The slenderness may need to be calculated for buckling about each axis of the column cross-section. The largest of the following values,  $K_x L_x / r_x$ ,  $K_y L_y / r_y$  or possibly  $K_z L_z / r_z$ , must be used.

### 2.1 Effective Length Factor

Depending on the type of building and column end conditions, the effective length factor,  $K$ , may be determined as follows:

(a.) Braced frames(Non-sway Frames)

i. Non-moment connections at the column joints.

$$K = 1.0$$

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**Alan Hayward**



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