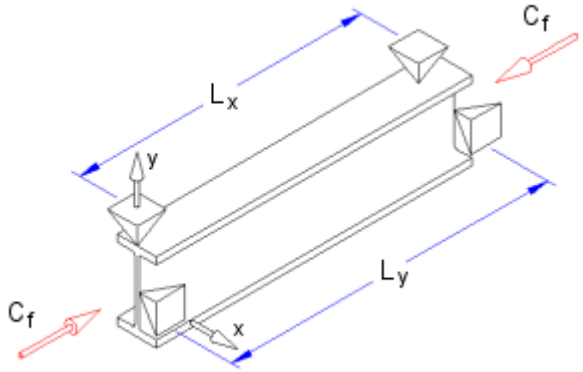
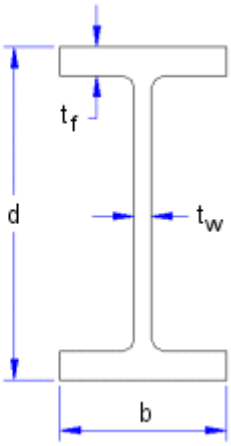
Design of Columns to CAN/CSA-S16.1-94





Factored Axial Load C_f

Axial Compression

C_r $=\phi A F_y (1+\lambda^{2n})^{-1/n}$

where

ϕ =0.9

n =1.34 for Group 1, 2 and 3 W-shapes of CSA G40.20

$(KL/r)_{max}$ $=\text{Max}(KL_x/r_x, KL_y/r_y)$

λ $=(KL/r)_{max} [F_y/(\pi^2 E)]^{1/2}$