

Design of Braces

Select braces based on strength criterion

$$(V_{story\ brace})_i \leq (\phi_t P_{yt} + \phi_c P_{yc})_i \cos \alpha_i$$

Yield strengths of braces

$$(P_{yt})_i = R_y F_y (A_{br})_i$$

$$(P_{yc})_i = \beta R_y F_y (A_{br})_i$$

Minimum required area of braces

$$(A_{br})_i = \frac{(V_{story\ brace})_i}{(\phi_t + \beta \phi_c) F_y \cos \alpha_i}$$

Ultimate strengths of braces

$$(P_{ut})_i = \omega R_y F_y (A_{br})_i$$

$$(P_{uc})_i = \omega \beta R_y F_y (A_{br})_i$$

Determine factored gravity loading on the non-yielding members

Determine forces on the non-yielding members based on inelastic state of braces

Design of Beams

Gravity loads

+

Brace unbalanced loads

$$(F_b)_i = ((P_{ut})_i + (P_{uc})_i) \cos \alpha_i$$

$$(F_v)_i = ((P_{ut})_i - (P_{uc})_i) \sin \alpha_i$$

Design of Columns

Gravity loads on beams

+

Brace unbalanced loads

Check compactness and lateral support spacing

Design axial force on column

$$(P_{col})_i = (P_{unbalanced})_i + \sum (P_{beam})_i + (P_{uc})_{i+1} (\sin \alpha)_{i+1} + \frac{(F_v)_i}{2}$$

Design of non-yielding Members per AISC Specifications

Brb Design Guide Aisc

Lauren Gardner



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