

Elastic Buckling of Plates

The critical buckling stress for a simply supported plate subjected to compression in one direction is given by

$$f_{cr} = kC_w \left(\frac{t}{w} \right)^3, \quad (1)$$

where, t and w are the thickness and width of the plate, respectively, k is the buckling coefficient, and is dependent on the type of loading, boundary condition, and length to width ratio of the plate, C_w is the material constant given by

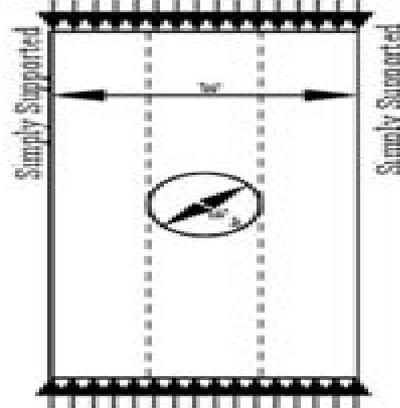
$$C_w = \frac{\pi^2 E}{12(1-\nu^2)}. \quad (2)$$

For a simply supported plate of large length to width ratio (i.e., L/w greater than 4) with uniform compression along the length, a value of $k = 4$ can be used with very little loss in accuracy [Yu, 2000]. For a plate with 3 sides simply supported and 1 side free, under uniform compression and large L/w ratio, $k = 0.425$.

Elastic Buckling of Plates with Holes

In cold-formed steel structural members, holes may be provided in webs or flanges of the member for functional requirements like piping, electrical cables, ducts and other utilities. Openings may also be required to accommodate the transverse member, which may be structural or non-structural. The presence of holes alters the stiffness and strength of the members.

Consider a simply supported plate, under uniform compression along the length, with a central hole of width w_h (Figure 1). The width of the plate at the hole is $(w - w_h)$. Further, due to the presence of the hole, the boundary conditions, for the portion of the plate at the hole, change to simply supported on 3 sides and free on 1 side (S3F1).



Bending Buckling Of Elastic Plates

Yicheng Fang

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red semi-circular shape behind it.

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