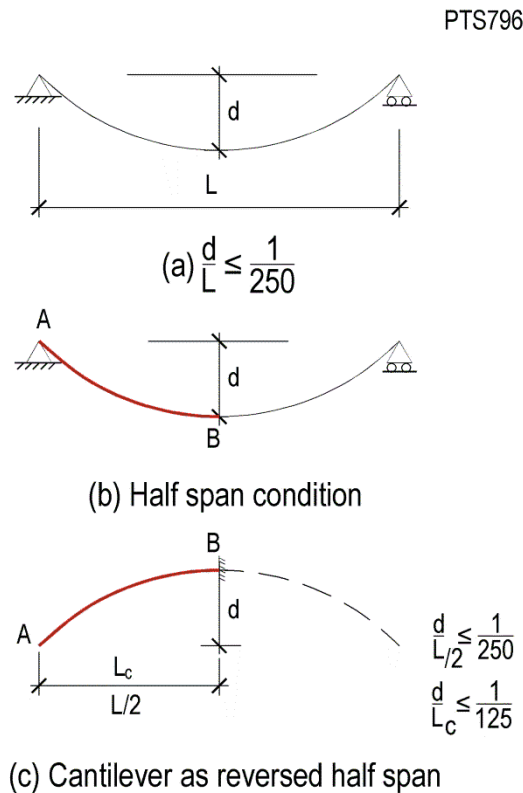


PERMISSIBLE CANTILEVER DEFLECTION

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For visual effects and sense of comfort, the maximum deflection (out-of-flat position) of a span with respect to its span length is specified as $1/240^2$ or $1/250^3$, depending on the building code used (Fig. 1a)

Figure 1b identifies one-half of the span that is representative of a cantilever condition shown in Fig. 1c. The geometry of full span shown in Fig. 1b, when referenced to one half of its length, is shown Fig. 1c as a cantilever. Comparison of the figures shows that the span deflection criterion, when applied to cantilevers results in the deflection criterion of cantilever span divided by 120 or 125.



FIGURES 1, 2 and 3

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² ACI 318

³ EC2 EN 1992-1-1:2004

www.ADAPTsoft.com

www.PT-Structures.com

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