Ask the Mod Steel

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Classifying Sections for Local Buckling

I am designing a wide-flange section in compression. I have chosen a W27×94 as a trial section. Table 1-1 indicates it is slender for compression. Table B4.1of the indicates for an unstiffened element that λ = 0.45√(/). For ASTM A992 steel this results in λ = 9.89. For a stiffened element the indicates that λ = 1.49√(/). For A992 steel this results in λ = 32.8. What I do not understand is what is meant by unstiffened and stiffened. The definition for unstiffened—"supported along one edge parallel to the direction of the compres

Base Plate Models