

4.4 Summary

The important factors to be considered while evaluating the tensile strength are the reduction in strength due to bolt holes and due to eccentric application of loads through gusset plates attached to one of the elements. The yield strength of the gross area or the ultimate strength of the net area may govern the tensile strength. The effect of connecting the end gusset plate to only one of the elements of the cross section can be empirically accounted for by the reduction in the effectiveness of the out standing leg, while calculating the net effective area. The iterative method has to be used in the design of tension members.

