

Evaluation of connection in two-story X-brace configuration of Ordinary Concentrically Braced Frame (OCBF) - CBFEM

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Evaluation of Limit states of
welded connection in CBFEM
[Chapter J2 , AISC 360-16]

Increase the axial tension load in brace in CBFEM model of **IDEA StatiCa**
Connection (balance the forces on beam as per loads in equilibrium),
unless **at least 100% utilization is reached in welded connection**

Analysis ✓ 100.0%
Plates ✗ 24.6 > 5.0%
Welds ✗ 100.0 > 100%
Buckling Not calculated

Evaluation of weld connecting gusset plate to brace

Analysis ✓ 100.0%
Plates ✗ 24.6 > 5.0%
Welds ✗ 100.0 > 100%
Buckling Not calculated

