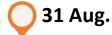


Modeling Tips&Tricks – August 3rd Noon – EDT

Upcoming webinars IDEA StatiCa



Welds&Bolts in IDEA StatiCa



26 Oct.

Verification Studies - University of Tennessee

How IDEA StatiCa works with your other software?



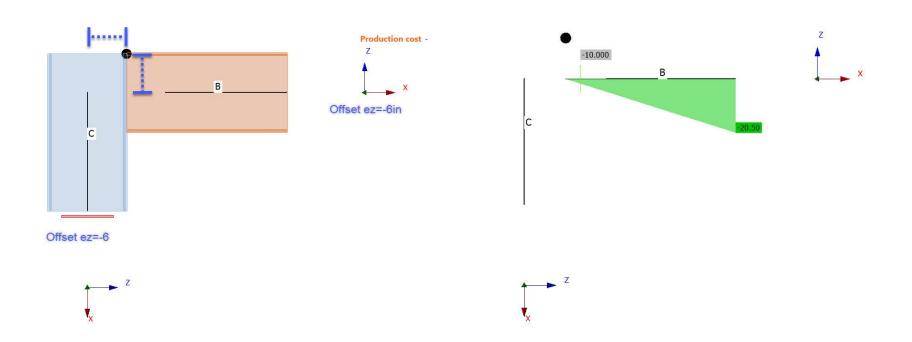
Tips 1-3

Avoid using offsets when modeling members

Use operations instead of offsets in member

Model Model type

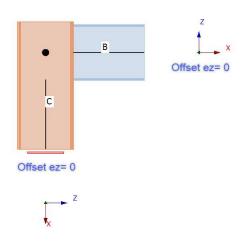
Using offsets



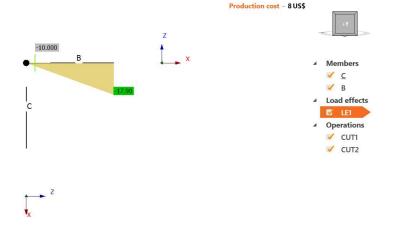
StatiCa®

4

Using operation





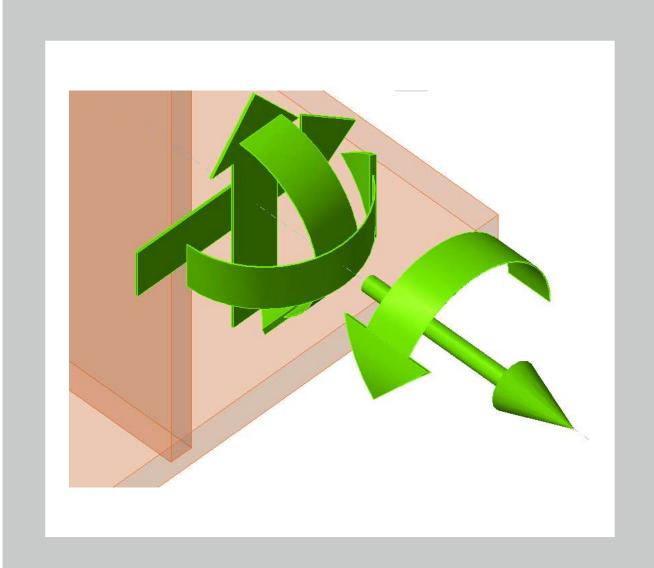




Е

Tip 3 Model type

- N-Vy-Vz-Mx-My-Mz
- Forces/moments in all directions
- Boundary condition: Fully fixed

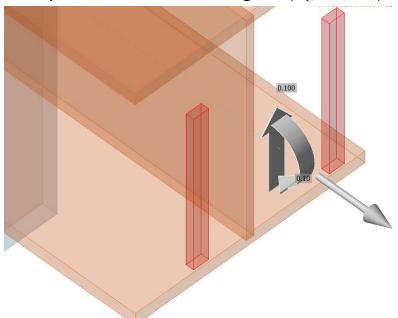




Tip 3 Model type

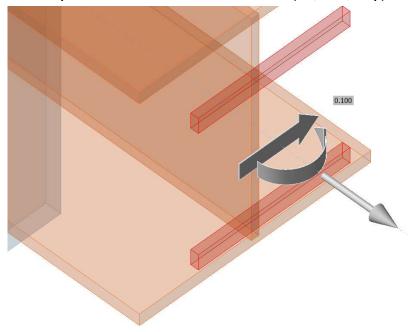
Forces: N-Vz-My

Boundary condition: Fixed in strong axis (Vy, Mx, Mz)



Forces: N-Vy-Mz

Boundary condition: Fixed in weak axis (Vz, Mx, My)

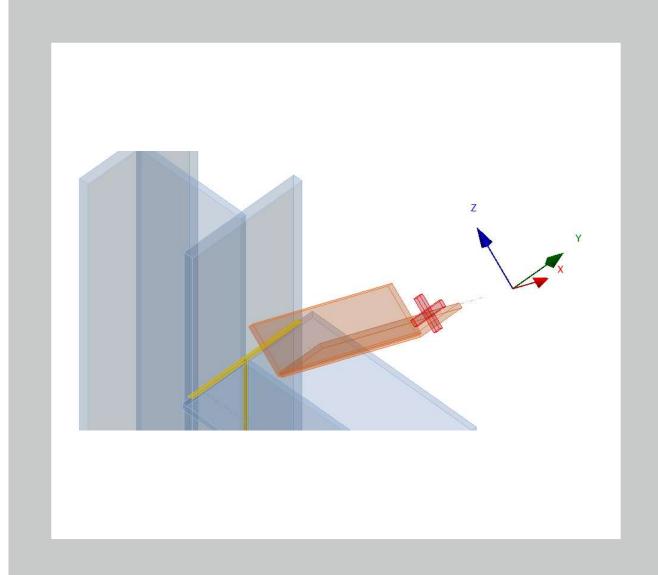




Tip 3 Model type

• Forces: N, Vy, Vz

• Boundary condition: Pinned





Tips 4-10

- 4. Stiffening plate Using a DXF to create plate geometry
- 5. Start with larger than required plate size and use plate cut operation to align with members
- 6. Tooltips (plate info and help)
- 7. Gusset operation Existing plate
- 8. Plate as a **doubler** in another plate/member (shear tab gusset connection, filler plates)
- 9. Bolt grid operation
- 10. Using Plate Editor: Offset in gusset plate to add a gap

Tip 4. AISC Design Guide #29 – Example 6.1a

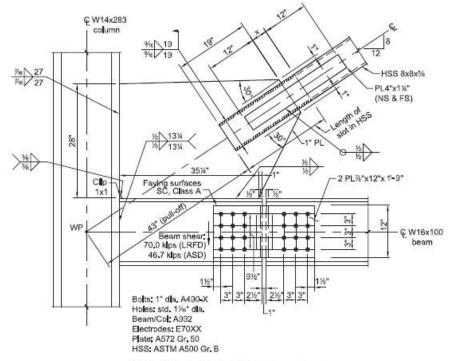
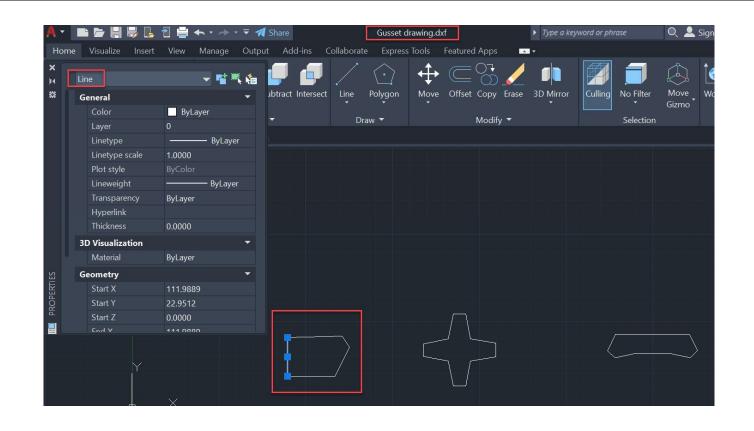


Fig. 6-1. High-seismic design with hinge (moment release).

AISC DESIGN GUIDE 29 / VERTICAL BRACING CONNECTIONS-ANALYSIS AND DESIGN / 293



Tip 4. DXF Drawing





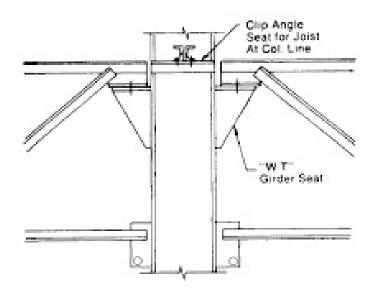
Tips 11-15

- 11. Cleat operation connected to a plate
- 12. Stiffening member (stub member, joist connection to a beam)
- 13. Extended shear tab (load position)
- 14. Lifting lugs
- 15. Weld operation will show only plates or stiffening member before it.

BONUS. Connection browser (Selection option)

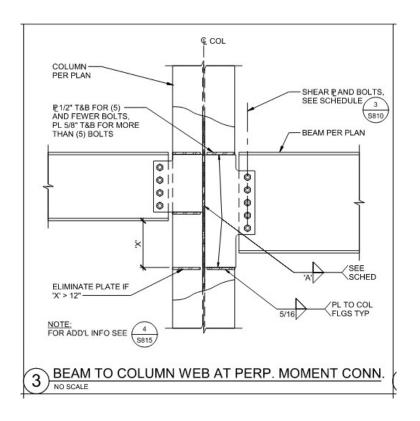
Tip 12. Stiffening member (stub member, joist connection to a beam)

FLOOR JOIST WINDER TO COLUMN DETAILS



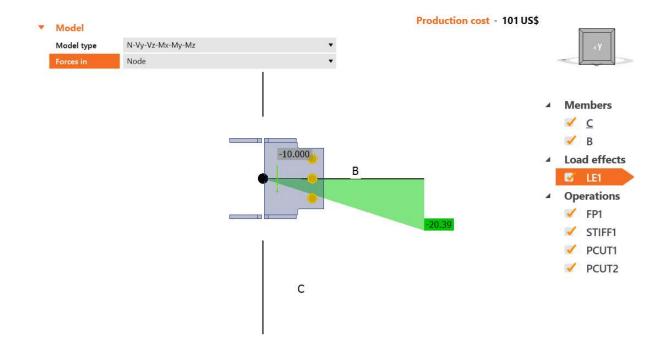


Tip 13. Extended shear tab



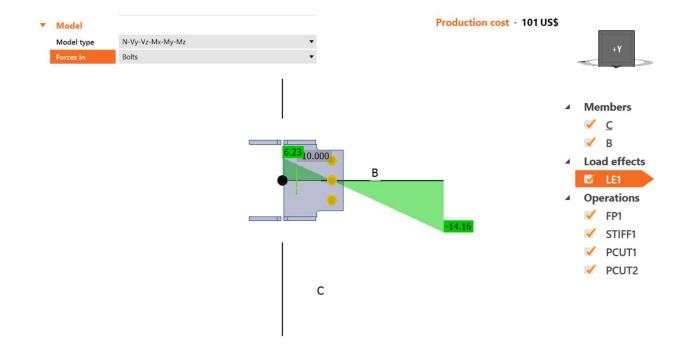


Tip 13. Load position -Node



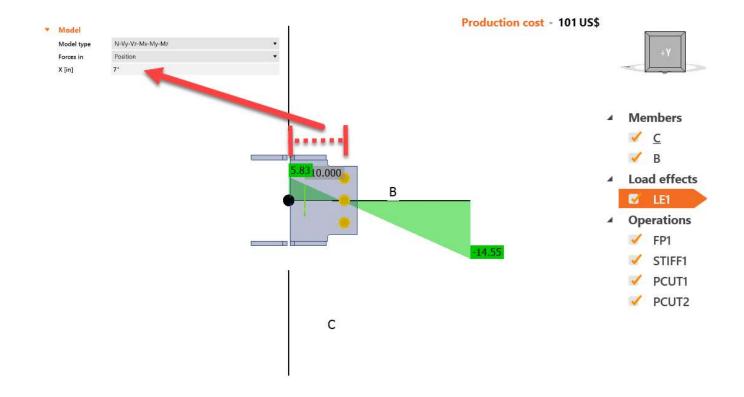


Load position - Bolts



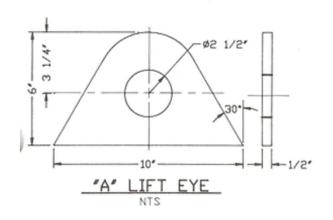


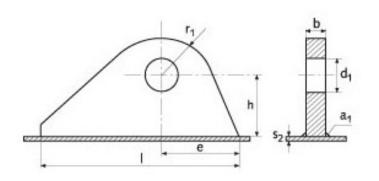
Load position= 7in





Tip 14. Lifting lug

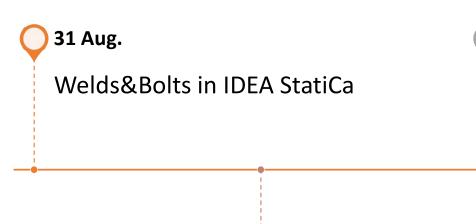






Q&A

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How IDEA StatiCa works with your other software?

21 Sep.



Thank you



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