INTEGRATED PROGRAMS

CN | RISAConnection
3D | RISA-3D
FL | RISAFloor
REFERENCED CODES

AISC 360-10

AISC 341/358-10
CONNECTION TYPES

WELDED UNREINFORCED FLANGE (WUF-W)

- Shear tab used for erection purposes
- CJP weld of Flanges, Web
- SMF, IMF, OMF
CONNECTION TYPES

REDUCED BEAM SECTION (RBS)

- Shear tab used for erection purposes
- CJP weld of Flanges, Web
- Coped Flanges (Dogbone)
- SMF, IMF, OMF
CONNECTION TYPES

BOLTED UNSTIFFENED EXTENDED END PLATE (BUEEP)

- 4 Bolts per Flange
- CJP weld of Flanges, Web
- SMF, IMF, OMF
CONNECTION TYPES

BOLTED STIFFENED EXTENDED END PLATE (BSEEP)

- 4 or 8 Bolts per Flange
- CJP weld of Flanges, Web
- SMF, IMF, OMF
CONNECTION TYPES

BOLTED FLANGE PLATE (BFP)

- Fillet, PJP, or CJP weld of Web
- CJP weld of Flanges
- SMF, IMF, OMF
NO SEISMIC DETAILING

- R = 3.0
- Not Allowed for SDC “D” and above
- Uses only AISC 360 provisions
ORDINARY MOMENT FRAME (OMF)

- $R = 3.5$

- Not Allowed for SDC “D” and above
  - Except certain Single Story structures

- Uses AISC 360 and AISC 341 provisions
ORDINARY MOMENT FRAME (OMF)

OPTIONS

1. Design Moment = 10% above expected beam strength

2. Design beam to remain elastic at full earthquake force (R = 1)

3. CJP Weld Everything
   - Must meet various SMF and AISC 358 provisions
   - Nearly as stringent as IMF, therefore not commonly used
INTERMEDIATE MOMENT FRAME (IMF)

- \( R = 4.5 \)

- Not Allowed for SDC “E” and above
  - Except certain Single Story structures

- Not Allowed for High Rises in SDC “D”

- Uses AISC 360, 341, and 358 Provisions
  - Relaxed AISC 358 Provisions (e.g. Span to Depth Ratios)
SPECIAL MOMENT FRAME (SMF)

- $R = 8.0$

- Allowed for all SDC’s

- Uses AISC 360, 341, and 358 Provisions
  - Most Stringent Provisions (e.g. Span to Depth Ratios, Welding)
QUESTIONS?

Please let us know if you have questions

- We will answer questions for the next 5 minutes
- Once the webinar is closed, we will post all Q&A's at risa.com
- For further information, contact us at: info@risa.com