

STEEL FRAMING INDUSTRY ASSOCIATION OBSERVATION REPORT PROTOCOL**STRUCTURAL FRAMING****GUIDELINES FOR THE INSPECTOR**

1. On site Observation Report by Recognized Engineer (PE) every year (prior to issuance of certification, or during the 12-month period prior to application for renewal of certification)
2. Framing (panel system or the project framing) to be at least 75% complete
3. Not everything on the following list must be observed. However, there some key items that must be evaluated.

Structural applications, including:

- i. Walls, floors, and roof interface
 - ii. Framing alignment
 - iii. Fasteners and connections
 - iv. Rough openings
 - v. Shear walls
4. When reviewing an installation, first establish the area to be inspected on the project location and limit observation to that area. For example:
 - i.e. Third floor, Northwest Corner, specific wall type, floor type, or roof type
 - Observe installation practice with no comments as to design
 5. Limitations:
 - This guide is limited to steel materials that can be verified.
 - This guide is limited to standard products contained in the Steel Framing Industry Association "***Technical Guide for Cold-formed Steel Framing Products.***" Nonstandard/proprietary products may have certain limitations and requirements beyond the scope of this document, but which are provided in manufacturer literature.
 - This guide is limited to conventional framing practices with stud, joist, and truss framing spaced at 24" on center or less.

This guide should only be used as an aid to observing **structural cold- formed steel framing installations**. It is not intended to approve installation as to project design or to meet local building code requirements.

Observation Checklist for Structural Applications

SFIA Contractor: _____

About the Project / Assembly Inspected

Project Name/Identifier: _____

Date of Observation: _____

1. Observe Cold-formed steel fasteners

- Screws, pins, welds, bolts
- Appropriate for condition
- Proper installation

Comments _____

2. Observe Floor, Roof and Ceiling Framing

- Plumb
- Meets bearing requirements
- Stiffeners and compression blocking
- Joist and rafter bracing
- No splicing of joists or rafters
- Are cantilevers and openings framed properly
- Truss installation meets requirements

Comments _____

(Observation report, Structural, page 2, _____ / _____)
(project name/identifier) (date)

3. Observe Wall Framing

- Are studs seated in track properly?
- Is stud alignment as required
- Adequate Foundation connections
- Stud bracing
- No stud splicing

Comments _____

4. Observe Curtain walls – if any

- Adequate slip connections

Comments _____

5. Observe Shear Walls

- Sheathed Walls
 - Correct panel type
 - Roof diaphragm boundary
 - Roof Blocking
 - Panel sheathing boundary and field fasteners
 - Bottom track connection
 - Floor rim track to top of wall connection
 - Foundation track connection
 - Hold-downs

Comments _____

(Observation report, Structural, page 3, _____ / _____)

"X-Braced" Walls

- Diagonal straps installed taught even after load applied
- Track and rim track connections

Comments _____

Misc.

- Head of screws or pins properly seating in sheathing
- Sheathing is installed with continuous strap of approved blocking detail
- Edge fasteners at multiple studs connected to hold-down device
- Bottom track connection to foundation or structure
- Blocking and/or shear transfer connections
- Shear walls have boundary studs
- Hold-down devices as required
- Anchor bolts properly installed

Comments _____

6. Observe Built-up beams and girders – if any

- Installed properly
- No penetrations unless called out in design
- Beam stiffeners

Comments _____

(Observation report, Structural, page 4, _____ / _____)

7. Floor and Roof Trusses – if any

- Truss panel points
- Truss orientation
- Truss-to-wall connections
- Truss bracing
- Truss anchorage
- Shear connections

Comments _____

Attestation