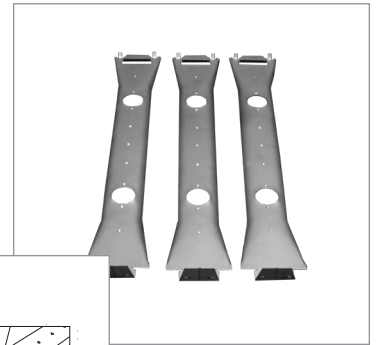
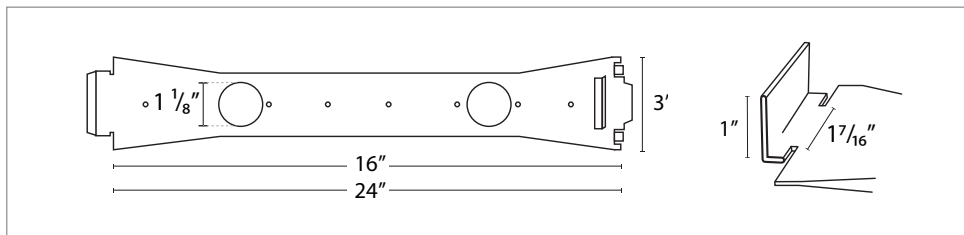
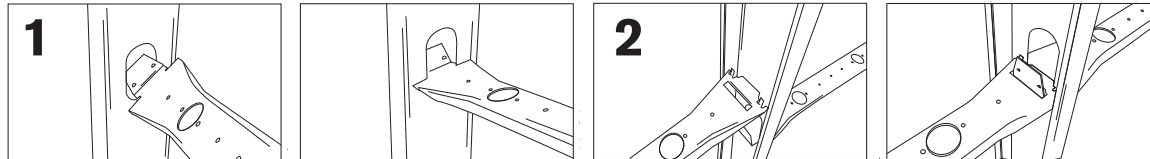


**INTRODUCING**

# SNAP LOCK



**Create strong studs using these easy steps:**



Length	Gauge
16"	20
24"	20
16"	16
24"	16

**Snap Lock is an easier, quicker & stronger way to snap your studs into layout & lock them into place. No screws – no more threading long pieces through studs.**

**Create strong studs using these easy steps:**

**1st** Just insert the tall tab end of Snap Lock into a stud knock-out.

**2nd** Push it down over the previous Snap Lock until it snaps! \*See the diagram.

*All sizes contain 1 1/8" knockout for electrical services. Get that perfect, strong stud layout without pulling a tape or installing screws. Go to our website to watch our installation video.*

## SPECIFICATIONS

### 20 Gauge Steel

- ASTM A 653, structural grade 33, galvanized steel
- Coating Designation: Galvanized Steel equal or superior to ASTM A653 G40

### 16 Gauge Steel

- ASTM A653, structural grade 50, galvanized steel
- Coating Designation: Galvanized or Galvanized Steel equal or superior to ASTM A653 G60.

## PART 1 – GENERAL

### 1.1 DESCRIPTION

- A. Scope of Work All interior and exterior load-bearing and non load-bearing light gauge steel studs, track, joists, trusses, bridging and related accessories are as indicated on the Contract Drawings and specified herein.
- B. Related work specified elsewhere.

### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Exterior and Interior non load-bearing walls.
  - 2. Exterior and Interior load-bearing walls.

### 1.3 PERFORMANCE REQUIREMENTS

- A. Engineering Responsibility: Engage a fabricator who assumes undivided responsibility for engineering Snap Lock by Flex-Ability Concepts LLC by employing a qualified professional engineer to prepare design calculations, shop drawings, and other structural data.
- B. Design exterior non load-bearing curtainwall framing to accommodate lateral deflection without regard to contribution of sheathing materials.
- C. All Exterior and Interior load-bearing applications are to be engineered by a qualified professional Engineer.

### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who has completed cold-formed metal framing similar in material, design, and extent to that indicated for this project and with a record of successful in-service performance.
- B. Standard
  - 1. Work shall meet the requirements of the following standards:
    - a. American Iron and Steel Institute (A.I.S.I.) "Design of Cold Formed Steel Structural Members," 1986 with 1989 amendments.
    - b. American Society for Testing Materials (A.S.T.M.)
    - c. American Institute of Steel Construction (A.I.S.C.) "Manual of Steel Construction," 9th edition.
    - d. All pertinent Federal, State, and Local codes.
  - 2. The most stringent requirements shall govern in conflicts between specified codes and standards.
- C. Inspection
  - 1. Full responsibility for quality control shall remain with the Contractor.

### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Protect Snap Lock & Snap Lock Starter Clip from corrosion, deformation, and other damage during delivery, storage, and handling.
- B. Store Snap Lock & Snap Lock Starter Clip: protect with waterproof covering, and ventilate to avoid condensation.

### 1.6 SUBMITTALS

- A. Structural Calculations
  - 1. Submit structural calculations prepared by the Professional Engineer of record. Calculations shall include, but are not limited to:
    - a. Description of design criteria.
    - b. Engineering analysis depicting stress and deflection (stiffness) requirements for each framing application.
    - c. Selection of framing components and accessories.
    - d. Verification of attachments to structure and/or adjacent framing components.
- B. Drawings
  - 1. Submit drawings prepared by the contractor for approval by the Project Architect and Engineer. These drawings should include:
    - a. Cross-sections, plans and/or elevations depicting component locations.
    - b. Connection details.

## PART 2- PRODUCTS

### 2.1 AVAILABLE MANUFACTURERS

- A. Manufacturers offering Snap Lock may be incorporated in the work include, and are limited to:
  - 1. FLEX-ABILITY CONCEPTS 3840 N. Tulsa Ave, Oklahoma City, OK 73112  
Tel:(405)996.5343 FAX:(405)996.5353 www.flexabilityconcepts.com

### 2.2 MATERIALS

- A. Galvanized – 20 Gauge Steel Sheet Track: ASTM A 653, and as follows:
  - 1. Coating Designation: Galvanized Steel equal or superior to ASTM A653 G40
  - 2. Grade: 33
- B. Galvanized – 16 Gauge Steel Sheet Track: ASTM A653, and as follows:
  - 1. Coating Designation: Galvanized or Galvanized Steel equal or superior to ASTM A653 G60.
  - 2. Grade: 50

### 2.3 WALL FRAMING

- Snap Lock: Galvanized steel spacer and bridging bar.
- A. Steel Studs: Manufacturer's standard C-shaped steel studs with punched webs in depths indicated, with lipped flanges in various inches of width. Design uncoated steel thickness of specified gauge unless noted otherwise
  - B. Steel runner or track: Manufacturer's standard U-shaped steel track.

### 2.4 FRAMING ACCESSORIES

- A. Fabricate steel-framing accessories of the same material and finish used for framing members; with a minimum yield strength of 33,000 psi.
- B. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.

### 2.5 FASTENERS

- A. Mechanical Fasteners: Corrosion-resistant coated, self-drilling, self-threading steel drill screws.
  - 1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.

### 2.6 MISCELLANEOUS MATERIALS

- A. Galvanizing Repair Paint: SSPC-Paint 20 of DOD-P-21035, with dry film containing a minimum of 94 percent zinc dust by weight.

### 2.7 FABRICATION

- A. Fabricate Snap Lock and metal framing plumb, square, true to line, true to radius, and with connections securely fastened, according to manufacturer's recommendations and the requirements of this section.
  - 1. Extreme care should be taken when handling or cutting any metal products. Observe all safety precautions when handling or cutting Snap Lock.
  - 2. Cut Snap Lock components by sawing, shearing, or cutting with tin snips.
  - 3. Install Snap Lock Starter Clip by screw fastening, as standard with fabricator. Wire tying of Snap Lock components is not permitted.
- B. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies to prevent damage or distortion.
- C. Fabrication Tolerances: Fabricate assemblies as required.

## PART 3- EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Snap Lock and Snap Lock Starter Clip assemblies may be shop or field fabricated for installation, or it may be field assembled.
- B. Install Snap Lock and Snap Lock Starter Clip plumb, square, true to line, and with connections securely fastened, according to manufacturer's recommendations and the requirements of this Section.
  - 1. Extreme care should be taken when handling or cutting any metal products. Observe all safety precautions when handling or cutting Snap Lock & Snap Lock Starter Clip.
  - 2. Cut Snap Lock components by sawing or shearing or with tin snips.
  - 3. Install Snap Lock Starter Clip by screw fastening, as standard with fabricator. Wire tying of Snap Lock components is not permitted.
- C. Install Snap Lock components in one or multi-piece lengths as specified.
- D. Provide temporary bracing and leave in place until framing is permanently stabilized.
- E. Do not bridge building expansion and control joints with Snap Lock components. Independently frame both sides of joints.

### 3.2 REPAIRS AND PROTECTION

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed Snap Lock & Snap Lock Starter Clip with galvanizing repair paint according to ASTM A 780 and the manufacturer's Instructions.
- B. Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer to ensure that Snap Lock & Snap Lock Starter Clip is without damage or deterioration at the time of substantial completion.