

Flex Lite is the economical alternative to Flex-C Trac. Manufactured in an economical fashion, Flex Lite has been designed for curved framing applications where lateral loads are not an issue and where the higher quality of Flex-C Trac is not needed.

Use **Flex Lite** to frame curved walls, ceilings and soffits. Go on. Be creative. With **Flex Lite** it is as easy as 1, 2, 3.

First, bend the track to the desired position. The pivotal sections of the track make it easy to create your curve.

Second, secure the track with screws. Once you've curved the track to the desired shape, the securing screws hold the track rigid.

Finally, fasten the track to the ceiling or floor. This solid span of steel provides for a strong, solid installation.

Flex Lite's minimum outside radius:15" Lenght:10'.

SPECIFICATIONS

Channel and integral strap:

- ASTM A653 Commercial Quality (CQ), galvanized steel.
- Standard protective coating equal or superior to ASTM A653 coating designation G-40 or A-40
- 25 gauge.

PART 1 - GENERAL

1.1 DESCRIPTION

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

1.2 SUMMARY

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

1.3 PERFORMANCE REQUIREMENTS

- Engineering Responsibility: Engage a fabricator who assumes undivided responsibility for engineering FLEX LITE metal framing 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.
- All Exterior and Interior load-bearing applications are to be engineered by a qualified professional Engineer.

1.4 QUALITY ASSURANCE

- 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. Α.
- B. Standard
 - 1. Work shall meet the requirements of the following standards:
 - American Iron and Steel Institute (A.I.S.I.) "Design of Cold Formed Steel Structural Members," 1986 with 1989 amendments. American Welding Society (A.W.S.) D.1.3, 1981 "Structural Welding Code a.
 - b. Sheet Steel."
 - C.
 - American Society for Testing Materials (A.S.T.M.) American Institute of Steel Construction (A.I.S.C.) "Manual of Steel d. Construction," 9th edition.
 - All pertinent Federal, State, and Local codes.
 - The most stringent requirements shall govern in conflicts between specified 2. codes and standards.
 - Certify that each welder has satisfactorily passed AWS qualification tests for З. welding processes involved and, if pertinent, has undergone recertification within the past twelve months.

C. Inspection

- As directed by Architect, Owner's testing agency may inspect the maintenance of a quality control program including spot checking weldments and welding procedures in accordance with A.W.S. standards.
- 2. Full responsibility for quality control shall remain with the Contractor.

1.5 DELIVERY, STORAGE, AND HANDLING

- Protect FLEX LITE metal framing from corrosion, deformation, and other damage
- during delivery, storage, and handling. Store FLEX LITE metal framing, protect with waterproof covering, and ventilate to B. 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. Engineering analysis depicting stress and deflection (stiffness) requirements for each framing application. Selection of framing components and accessories. Verification of attachments to structure and/or adjacent framing b.
 - C.
 - d. components.
- B. Drawings

Submit drawings prepared by the manufacturer for approval by the Project Architect and Engineer. These drawings should include: a. Cross-sections, plans and/or elevations depicting component locations. 1.

- Connection details showing screw types and locations, weld lengths and b. locations or other related fastener requirements.
- C. Where the Contractor intends on erecting prefabricated/prefinished panels, drawings depicting panel configurations, dimensions and locations would e developed by the Contractor.

PART 2- PRODUCTS

2.1 AVAILABLE MANUFACTURERS:

A. Manufacturers offering FLEX LITE metal framing that may be incorporated in 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

- Galvanized Steel Track: ASTM A653, and as follows: A.
 - Coating Designation: Galvanized Steel equal or superior to ASTM A653 G40 1. or A40
 - 2. Commercial Quality (CQ)

2.3 WALL FRAMING

- Steel Studs: Manufacturer's standard U-shaped steel studs with punched webs in depths indicated, with lipped flanges 1-5/8 inches in width. Design uncoatedsteel thickness of specified gauge unless noted otherwise.
- B
- Wood Studs: Per applicable drawing specifications. FLEX LITE: Manufacturer's standard U-shaped flexible steel track with flanges having integrally formed straps and screw attachments at every flange interval. C

2.4 FRAMING ACCESSORIES

- Fabricate steel-framing accessories of the same material and finish used for Α. framing members; with a minimum yield strength of 33.000 psi.
- В. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.

2.5 FASTENERS

- Mechanical Fasteners: Corrosion-resistant coated, self-drilling, self-threading Α. steel drill screws or Corrosion-resistant coated sharp point screws. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
- B. Welded Electrodes: Comply with AWS standards.

2.6 MISCELLANEOUS MATERIALS

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

2.7 FABRICATION

- Fabricate FLEX LITE metal framing and accessories plumb, square, true to line, Α. true to radius, and with connections securely fastened, according to manufacturer's recommendations and the requirements of this Section.

 - Fabricate assemblies in jig templates of this Section. Fabricate assemblies in jig templates or free form scribed radiuses. Extreme care should be taken when handling or cutting any metal products. Observe all safety precautions when handling or cutting FLEX LITE. Cut FLEX LITE metal framing by saving or shearing; do not torch cut. Fasten FLEX LITE metal framing by welding or screw fastening, as standard with fabricator. Wire tying of FLEX LITE framing members is not permitted. 2.
 - З. 4.
 - Comply with AWS requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work. Locate mechanical fasteners and install according to FLEX LITE a.
 - b. manufacturer's instructions with screw penetrating integrally formed straps at every flange interval and joined members by not less than 3 exposed screw threads.
- 5. Fasten other materials to FLEX LITE metal framing by welding, bolting, or screw fastening, according to manufacturer's recommendations.
- Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies to prevent damage or distortion. B.
- Fabrication Tolerances: Fabricate assemblies as required.

PART 3- EXECUTION

3.1 INSTALLATION, GENERAL

- FLEX LITE metal framing may be shop or field fabricated for installation, or it Α. may be field assembled.
- Install FLEX LITE metal framing and accessories plumb, square, true to line, true to radius, and with connections securely fastened, according B. 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 FLEX LITE. Cut FLEX LITE members by sawing or shearing; do not torch cut. Fasten FLEX LITE members by welding or screw fastening, as standard with fabricator. Wire tying of FLEX LITE members is
 - 2.
 - З.

not permitted. a.

Comply with AWS requirements and procedures for welding, appearance and quality of

welds, and methods used in correcting welding work. b. Locate mechanical fasteners and install according to FLEX LITE manufacturer's instructions with screw penetrating integrally formed straps at every flange interval and joined members by not less than 3 exposed screw threads.

- Install FLEX LITE members in one or multi-piece lengths as specified. C.
- Splice FLEX LITE segments by overlapping integrally formed straps from one FLEX LITE to another and attaching screwed fasteners at overlapping plates or flange intervals. Screw penetrations of not less than 3 exposed D. screw threads.
- Provide temporary bracing and leave in place until framing is permanently stabilized. Do not bridge building expansion and control joints with FLEX LITE metal framing. F.
- Independently frame both sides of joints. Fasten reinforcement plate over web penetrations that exceed size of G. manufacturer's standard punched openings.

3.2 REPAIRS AND PROTECTION

- Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed FLEX LITE metal framing with galvanizing repair paint according to ASTM A 780 and the manufacturer's instructions. Touchup painting: Wire brush, clean, and paint scarred areas, welds, and rust
- B. spots on fabricated and installed prime-painted, FLEX LITE metal framing. Touchup painted surfaces with same type of shop paint used on adiacent surfaces.
- Provide final protection and maintain conditions in a manner acceptable to C. manufacturer and installer to ensure that FLEX LITE metal framing is without damage or deterioration at the time of substantial completion.