Using new technology, the Flex-C Plate system, allows the builder to create high quality, curved walls, columns, arches, and even “S”-curves in a simple, easy to use product. Also, labor costs are reduced because using Flex-C Plate is fast and as easy as 1, 2, 3.

**First,** bend the plate to the desired position. The pivotal sections of the plate make it easy to create the perfect curve with no uneven or flat spots.

**Second,** secure the plate with screws. Once you’ve selected the desired radius, the securing screws hold the plate rigid (as though it were a solid piece of sheet metal).

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

2 x 6 Flex-C Plate’s minimum outside radius is 18". Length: 8’. Lateral load charts available.

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**SPECIFICATIONS**

**Channel:**
- ASTM A653, structural grade 33, hot dipped galvanized steel.
- Standard protective coating equal or superior to ASTM A653 coating designation G-60.
- 20 gauge

**Slidable Strap:**
- ASTM A653, hot dipped galvanized steel.
- Standard protective coating equal or superior to ASTM A653 coating designation G-60.
- Dimensions: .750” x .024”
- Structural Grade 80

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**SECTIONAL VIEW**

[Diagram showing sectional view of Flex-C Plate with labels for Channel, Pivotal Connection, and Slidable Strap.]
PART 1 – GENERAL

1.1 DESCRIPTION
A. Scope of Work: All interior and exterior load-bearing and non load-bearing light gauge steel and wood 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 preparing FLEX-C PLATE metal framing by employing a qualified professional engineer to prepare design calculations, shop drawings, and other structural data.
B. Design exterior non load-bearing curtain wall 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:
   c. American Society for Testing Materials (A.S.T.M.)
   e. All pertinent Federal, State, and Local codes.
2. The most stringent requirements shall govern in conflicts between specified codes and standards.
3. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone re-certification within the past twelve months.
C. Inspection
1. 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 AWS standards.
2. Full responsibility for quality control shall remain with the Contractor.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect FLEX-C PLATE and FLEX-C ANGLE metal framing from corrosion, deformation, and other damage during delivery, storage, and handling.
B. Store FLEX-C PLATE and FLEX-C ANGLE metal framing, 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 manufacturer 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 showing screw types and locations, weld lengths and locations or other related fastener requirements.
   c. Where the Contractor intends on erecting prefabricated/pre-finished panels, drawings depicting panel configurations, dimensions and locations would be developed by the Contractor.

PART 2 – PRODUCTS

2.1 AVAILABLE MANUFACTURERS
A. Manufacturers offering FLEX-C PLATE and FLEX-C ANGLE metal framing that may be incorporated in the work include, and are limited to, the following:
1. FLEX-ABILITY CONCEPTS – 5500 West Reno Avenue, Suite 300 Oklahoma City, OK 73127 Tel 405.996.5343 Fax 405.996.5353 www.flexabilityconcepts.com

2.2 MATERIALS
A. Galvanized – Steel Sheet Track: ASTM A 653, and as follows:
2. Grade: 33
2. Grade: 33
C. Galvanized Sliding Steel Strap (for all 20Ga. Plate and angle): ASTM A653:
2. Grade: 80

2.3 WALL FRAMING
A. Steel Studs: Manufacturer’s standard C-shaped steel studs with punched webs in depths indicated, with lipped flanges 1-5/8 inches in width. Design uncoated-steel thickness of specified gauge unless noted otherwise.