SECTION 15140
NON-CONTINUOUS HANGERS AND PIPE SUPPORTS

PART 1- GENERAL

1.1 SCOPE

A. Beam Clamp Hanger (2.3A)
B. "Big Mouth" Beam Clamp Hanger (2.3B)

1.2 SUMMARY

A. The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the pipe hanger and supports as described in this specification.

1.3 DEFINITIONS

A. ANSI: American National Standards Institute
B. ASTM: American Society for Testing and Materials
C. MSS: Manufacturers Standardization Society
D. NFPA: National Fire Protection Association
E. cULus: Listed by Underwriters Laboratories based on both Canadian and US (United States) standards requirements.
F. FMRC: Factory Mutual Research Corporation

1.4 SUBMITTALS

A. Submit product data on non-continuous pipe hanger supports. Product data to include, but not limited to materials, finishes, approvals, load ratings, and dimensional information.

1.5 QUALITY ASSURANCE

A. Non-continuous pipe hanger supports shall be listed by Underwriters laboratories for both Canadian and US standards (cULus).
B. Non-continuous pipe hanger supports shall have the manufacturers name and part number stamped on the part itself for identification.
C. Manufacturer: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience in the industry, and certified ISO 9000.
D. Hangers and supports shall be designed and manufactured in conformance with MSS SP 58.
E. Supports for sprinkler piping shall be in conformance with NFPA 13.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Subject to compliance with these specifications, non-continuous pipe hanger supports shall be as manufactured by ERICO, Inc or approved equal.

2.2 REFERENCES:

A. ASTM B633 Standard Specification for Electro-deposited Coatings of Zinc on Iron and Steel.
B. ASTM B 695-90 Standard Specification for coatings of Zinc Mechanically Deposited on Iron and Steel.
C. ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
D. ASTM A653 G90 -Specification for Steel Sheet, Zinc-Coated by the Hot-Dip Process.
E. MSS SP58 - Manufacturers Standardization Society: Pipe Hangers and Supports Materials, Design, and Manufacture.
F. MSS SP69 - Manufacturers Standardization Society: Pipe Hangers and Supports-Selection and Application.
G. NFPA 13 - Standard for the Installation of Sprinkler Systems.
H. ASTM A47 Grade 32510 malleable iron

2.3 NON-CONTINUOUS HANGERS AND PIPE SUPPORTS

A. Beam Clamp

1. Beam clamp shall provide a structural attachment with infinite adjustment to top or bottom of metal beams, purlin, channel, or angle iron to support hanger rod.
2. Beam Clamps shall be cULus Listed.Beam Clamps shall use a retainer strap when applicable.
3. Beam Clamps shall have a plain, electro-galvanized or hot dipped galvanized finish.
4. Beam Clamps shall be manufactured by ERICO, Inc. model #300, #300I or approved equal. Material shall be malleable iron casting with a hardened cup point set screw and locknut.

B. “Big Mouth” Beam Clamp

1. Beam clamp shall provide a structural attachment with infinite adjustment to top or bottom of roll formed, large lipped metal beams, purlin, channel, or angle iron which require 1-1/4” maximum jaw opening to support hanger rod.
2. Beam clamp shall be cULus Listed.
3. Beam Clamps shall use a retainer strap when applicable.
4. Beam Clamps shall have a plain, electro-galvanized or hot dipped galvanized finish.
5. Beam Clamps shall be manufactured by ERICO, Inc. model #310 or approved equal. Material shall be malleable iron casting with a hardened cup point set screw and locknut.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Installation and configuration shall conform to the requirements of the NFPA 70 (National Electrical Code), manufacturer’s instructions and applicable local codes.
B. Set screw on the model #300 , #300I or #310 must be tightened onto the sloped side of the I-Beam, channel or angle iron flange and torqued to 60 inch pounds for 3/8” rod size and 125 inch pounds for ½” rod size.
C. Do not exceed load ratings specified by manufacturer.