

TECHNICAL SPECIFICATIONS for Model: SFC-1900
SECTION 32 30 00 11
ANTI-RAM BARRIER CABLE SYSTEM

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. The contractor shall provide all labor, materials, and appurtenances necessary for installation of the SloanSecure™ Cable Barrier System defined herein.

1.2 RELATED SECTIONS

- A. Section Includes:

1. [] - Earthwork
2. [] – Concrete

1.3 SYSTEM DESCRIPTION

The manufacturer shall supply a total anti-ram cable barrier system of the Sloan Security Group SloanSecure™ Fixed Cable Barrier Design. The system shall include all components (i.e., cables, supports, posts, and hardware) required. The barrier shall comply with Sloan's System Drawings. Cable barrier shall be supported by stand-alone support posts or attached to existing fencing that runs parallel to the cable barrier. The cable barrier shall not require horizontal rails and instead include a tensioning system to enable the adjusting of cable tension to ensure performance. Cable terminations connections shall be not visible and tamper-proof by embedment in concrete.

1.4 QUALITY ASSURANCE

- A. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.5 REFERENCES

- A. ASTM International (ASTM):
1. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
 2. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
 3. ASTM A185 – Standard Specification for Steel Welded Wire Reinforcement, Plain for Concrete
 4. ASTM A36 - Standard Specification for Carbon Structural Steel
 5. ASTM F2656 – Standard Test Method for Vehicle Crash Testing of Perimeter barriers
 6. Federal Specification RR-W-410E / Wire Rope and Strand

1.6 SUBMITTALS

- A. The manufacturer's submittal package shall be provided prior to installation.

1.7 PRODUCT HANDLING AND STORAGE

- A. Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

1.8 WARRANTY

- A. Sloan's active vehicle barrier products carry a standard warranty against defects in material and workmanship on fabricated components for one year when installed by a Sloan authorized installer. Warranty begins at the ship date of product.

PART 2 – MATERIALS

2.1 MANUFACTURERS

- A. The anti-ram cable barrier system shall conform to the SloanSecure™ Fixed Cable Barrier designed, patented and manufactured by Sloan Security Group, Inc. of Boise, ID. This system shall be engineered and certified by a third-party structural engineer to stop a 15,000 lb vehicle traveling at speeds up to 50mph or ASTM 2656 M30-P2 or P3 rating. (Engineer to specify) Cable barrier design shall utilize a field assembled termination not requiring cable clips which can be easily disassembled.
- B. The entire anti-ram barrier system, and all associated gates, accessories, fittings, and fasteners shall be obtained from a single source

2.2 MATERIAL

- A. Steel material for cable-supporting framework (i.e., end, corner and support intermediate posts) shall be galvanized, with a minimum yield strength of 36,000 psi. The steel shall be hot-dip galvanized to meet the requirements of ASTM A123/A123M with a minimum zinc coating weight of 2.0 oz/ft².
- B. The cable material shall be Independent Wire-Rope Core (IWRC) wire rope conforming to Federal Specification RR-W-410E, 6 x 36 Warrington Seale, preformed, right regular lay, medium lubrication, Extra Improved Plow Steel (EIPS), with a breaking strength of 103,400 pounds (51.7 tons). Cable diameter shall be 1 inch.

2.3 FABRICATION

- A. Posts shall be pre-cut to specified lengths.
- B. Posts shall be pre-punched to accept cable attachment.
- C. Sloan bollard posts shall be pre-punched to accept cable connection.

PART 3 – EXECUTION

3.1 PREPARATION

- A. The purchaser shall indicate the location of barrier line with suitable stakes. Stake intervals shall not exceed 500 ft or line of sight.
- B. The purchaser shall indicate all underground utility locations, USC&G benchmarks, property monuments, and other underground structures.
- C. Before installing the SloanSecure™ Fixed Cable Barrier, all necessary site clearing and grading shall be performed by the purchaser. An adequate clearance on both sides of the cable barrier line is required.

3.2 INSTALLATION

- A. The barrier shall be installed per Sloan's System Drawings. Bollards, cable support posts, brackets, cabling, and fasteners shall be installed according to installation instructions and drawings. Posts and bollards shall be installed per product drawings and installation instructions. The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer unless otherwise specified by the product drawings or installation instructions.

3.3 FENCE INSTALLATION MAINTENANCE

- A. When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces:
 - 1. Remove all metal shavings from cut area.
 - 2. Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry.
- B. Failure to seal exposed surfaces per steps 1-2 above will negate warranty.
- C. Suggested Installer: Sloan Security Group Phone: (888) 382-8370, Website: www.sloansg.com, Email: info@sloansg.com

3.4 PURCHASING

- A. Fencing and gate materials shall be purchased from Sloan Security Group, Inc. Sloan Security Group shall provide custom designed solutions to match customized installation which may not be covered under the warranty for typical fence sections. Installation oversight and/or complete installation is also available from Sloan Security Group, regional office. Call 888.382.8379 contact info@sloansg.com

3.5 CLEANING

- A. The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

NOTE: Sloan Security Group reserves the right to change these specifications at any time. Call (888) 382-8370 to ensure that you have the latest edition.

CAUTION: Barriers manufactured by Sloan Security Group are intended for use in controlling vehicular traffic and are not intended to be used by pedestrians or to control pedestrian traffic.

Always install a separate pedestrian entry.