

TECHNICAL SPECIFICATIONS for Model: SWF-1900
SECTION 32 31 00
SECURITY FENCING

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. The contractor shall provide all labor, materials, and appurtenances necessary for installation of the SloanSecure™ Welded Wire Security Fencing defined herein.

1.2 RELATED SECTIONS

- A. Section Includes:
 - 1. [] - Earthwork
 - 2. [] – Concrete

1.3 SYSTEM DESCRIPTION

- A. The manufacturer shall supply a steel perimeter fence system. The system shall include all components (i.e., mesh filler, rails, posts, gates, and hardware) required.

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 A641 – Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
 - 3. ASTM A185 – Standard Specification for Steel Welded Wire Reinforcement, Plain for Concrete
 - 4. ASTM A82 Standard Specification for Steel Wire, Plain, For Concrete Reinforcement
 - 5. ASTM A853- Standard Practice for Steel Wire, Carbon, for General Use
 - 6. ASTM F2548 – Expanded Metal Fence Systems for Security Purposes
 - 7. ASTM F2453/F2453M – Standard Specification for Welded Wire Mesh Fence Fabric
 - 8. ASTM 1043 – Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework
 - 9. ASTM F626 – Standard Specification for Fence Fittings

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. All structural fence components (i.e. rails and posts) shall be warranted within specified limitations, by the manufacturer for a period of 10 years from date of original purchase. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering, or corroding. Fence is also guaranteed for the same period of time against defects in workmanship or materials.

1.9 PRODUCT TESTING & COMPLIANCE

- A. Fence system shall meet all quality control requirements against material defects in base material galvanization and powder-coating.
- B. Fence system shall meet all quality control requirements against material defects in protective coatings including galvanization and powder-coating.

PART 2 – PRODUCTS

2.1 MANUFACTURERES

- A. Acceptable Manufacturer: Sloan Security Group, Phone: (888) 382-8370, Website: www.sloansg.com, Email: info@sloansg.com
- B. Substitutions: Not Permitted.

2.2 MATERIAL

- A. The steel posts and rails shall meet the requirements of ASTM F1043 Group IC and be 50,000 PSI/(344MPa).
- B. Fence mesh filler material shall be anti-climb mesh 0.5" x 3" x 8 Ga. Conforming to ASTM F2453 and F2353M
- C. Fencing fittings shall be industrial grade galvanized and powder-coated and meet ASTM F626 Standard Specification for Fence Fittings.

2.3 FABRICATION

- A. Rails and posts shall be pre-cut to specified lengths.
- B. Fence rails and infill panels shall be securely fastened.
- C. Swing gates shall match style, height, and color of fence system. All rail and upright intersections shall be joined by welding. Mesh filer shall be securely affixed to gate frame.
- D. Pedestrian swing gates shall match fence system.
- E. Optional – Barbwire deterrent shall be installed at top of fence and gate system. Barbwire deterrent shall have a minimum of 3 strands and be affixed to barb arms. Barb arms shall be securely attached to each line and terminal posts.
- F. Optional – Spike Deterrent Strips shall be securely attached to the top of fence and gate system. Spike Deterrent strips shall be 12ga. (.075") galvanized steel.

PART 3 – EXECUTION

3.1 PREPARATION

- A. All new installation shall be laid out by the contractor in accordance with the construction plans.

3.2 FENCE INSTALLATION

- A. Fence posts shall be spaced 10' max on center or as required by structural engineer.
- B. Fence foundations shall be engineered and stamped by a structural engineer to withstand soil, wind and site conditions and requirements.
- C. Post foundations shall consist of 3000 PSI minimum redi-mixed concrete with sufficient mix design to reach a minimum of 3000 PSI at 28 day break or as required by structural engineer.
- D. Fence posts shall not be installed by more than ½" out of plumb and alignment perpendicular to the fence line.
- E. Fence post alignment parallel with the fence line may be located at 10' spacing +/- 3".

3.3 FENCE INSTALLATION MAINTENANCE

- A. When cutting/drilling steel and aluminum system components adhere to following steps to seal the exposed 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.
 3. Apply 2 coats of custom finish paint matching fence color.
- B. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Sloan spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Sloan parts or components will negate

the manufactures' warranty.

- C. Suggested Installer: Sloan Security Group Phone: (888) 382-8370, Website: www.sloansg.com, Email: info@sloansg.com

3.4 GATE INSTALLATION

- A. Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.

3.5 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

3.6 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.**