**MERCHANTS METALS**®

**SECTION 323119.40**

**SECURE-TRAC® DECORATIVE ORNAMENTAL PICKET CANTILEVER SLIDE GATE**

**PART 1 – GENERAL**

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary

 Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Decorative ornamental aluminum picket cantilever slide gate system.

B. Related Sections:

1. Division 03 Concrete
2. Division 31 Earthwork

1.3 REFERENCES

 A. American Society for Testing Materials:

1. B117 Practice for Operating Salt Spray (Fog) Apparatus
2. D523 Test Method for Specular Gloss
3. D714 Test Method for Evaluating Degree of Blistering of Paints
4. D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
5. D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
6. D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation
7. D3359 Test Methods for Measuring Adhesion by Tape Test
8. F567 Standard Practice for Installation of Chain-Link Fence
9. F1184 Standard Specification for Industrial and Commercial Horizontal Slide Gates
10. F2200 Standard Specification for Automated Vehicular Gate Construction

 B. Underwriters Laboratory UL-325 safety standards

1.4 SUBMITTALS

1. Product Data: Manufactures information for each type of product indicated.
2. Shop Drawings: Product elevations, sections, and details as necessary.
3. Product Warranty: Standard limited warranty that the cantilever slide gate system is free from defects in material and workmanship and, under normal or proper usage, will remain free from such defects for a period of three (3) years from the date of original purchase.
	1. QUALITY ASSURANCE
	2. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and the materials and techniques specified.
	3. Provide complete cantilever slide gate system with all components provided by a single manufacturer.
	4. Manufacturer Qualifications: Company specializing in manufacturing of cantilever slide gate systems with a minimum of 5 years documented experience.
	5. PRODUCT HANDLING AND STORAGE
4. Cantilever slide gate to be delivered to the project site pre-assembled when possible and coated. Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping.
5. Materials shall be handled and stored properly to protect against damage, weather, vandalism and theft.

**PART 2 – PRODUCTS**

2.1 DECORATIVE ORNAMENTAL ALUMINUM CANTILEVER SLIDE GATE

Approved manufacture: Merchants Metals® [www.merchantsmetals.com](http://www.merchantsmetals.com)

Phone: (888) 260-1600 Fax: (888) 261-3600 tech-info@merchantsmetals.com

1. Cantilever Slide Gates: **SECURE-TRAC**® manufactured in accordance with ASTM F 1184 Type II Class 2, and in compliance with UL-325, and ASTM 2200 (No substitution). Gate to be made of Aluminum Alloy 6005-T61. All square members are 2” sq. weighing 0.94 lb. /ft. (139 kg/m). Complete frame welded to one piece track and 4” x 2” bottom rail weighing 1.71 lbs. /ft. (2.54 kg/m). Supply 2 truck assemblies that are swivel type having lubricated and sealed ball bearing wheels.
2. Gates 31’0” (9449 mm) thru 40’0” (12192 mm) dual top tracks member weighing 6.36 lb./ft. (9.45kg/m). The bottom rail 4” x 2” weighing 1.71 lb. /ft. (2.54 kg/m). Top tracks require two additional truck assemblies. Diagonal adjustable 1/4” (6 mm) stainless steel truss cables (2) provided inside each panel of the gate.
3. Gates over 40’0” (12192 mm), contact the manufacturer for custom drawings and specifications.
4. Aluminum 1” sq. Picket style – choose one: Lafayette, Kent, Monroe, or Curve Top.
5. Aluminum 1.5” sq. Rail - choose one: Two, Three, Three or Four Rails with rings, Four Rails, or Custom.
6. Chain Link 9 gauge wire 2” fabric options choose one: Galvanized before Weaving (GBW), Galvanized after Weaving (GAW), Aluminized, or Thermally Fused & Adhered 2b PVC.
7. Finish – choose one: Natural Aluminum or Polymer coated horizontal slide gates and posts shall match the coating type and color as that specified for the fence framework. Finish shall comply with Corrosion Resistance Salt Spray Test per ASTM B117, Impact Resistance per ASTM D2794, and Adhesion per ASTM D3359 Method B. All primary components shall receive a thorough cleaning and pre-treatment with a 10-step process: Hot alkaline cleaner, clear water rinse, hot iron phosphate application, clear water rinse, reverse Osmosis rinse, dry off oven heat, zinc enriched powder primer coat at 2-4 mils., gel oven heat, Ultra polyester finish T.G.I.C. powder coat at 2-4 mils., and final curing oven. Choose color: Black, Brown, Green, or Custom.
8. Gateposts, 4” O.D. (101.6 mm) schedule 40 weighing 9.11 lb. /ft. (13.6 kg/m). Single gates with single tracks require 3 gate posts. (1 latch post and 2 support posts) Single gates with dual tracks require 5 gate posts. (1 latch and 2 dual support posts) Double gates require twice the number of support posts but do not have a latch post.
9. Electrically operated horizontal slide gates must be manufactured and installed to comply with the safety requirements of ASTM F2200 and UL 325.

2.2 GATES

1. Ornamental picket steel fence (see section 32 31 19.10
2. Ornamental picket swing gates (see section 32 31 19.20)
3. Ornamental picket pre-hung gates (see section 32 31 19.30)
	1. SETTING MATERIALS
4. Concrete: Minimum 28 day compressive strength of 3,000 psi.

**PART 3 EXECUTION**

3.1 EXAMINATION

1. Verify areas to receive fencing are completed to final grades and elevations.
2. Property lines and legal boundaries of work to be clearly established by the general contractor or property owner.
	1. FRAMEWORK INSTALLATION
	2. Posts: Posts shall be set plumb in concrete footings. Minimum footing diameter four times the largest cross section of the post up to a 4.00” (101.6 mm) dimension and three times the largest cross section of post greater than a 4.00” (101.6 mm) dimension. <Insert footing depth and diameter> <Local codes, site soil conditions, local frost depth, fence height and wind load may require larger diameter or deeper footings - See Chain Link Manufactures Institute – Product Guide and Wind Load Guide CLFMI: WLG 2445> Top of concrete footing to be [at grade crowned to shed water away from the post or 6 inches (152 mm) below grade] <Insert footing grade requirement> crowned to shed water away from the post
	3. CANTILEVER GATE INSTALLATION
3. Horizontal Slide Gates: Install according to manufacturer’s instructions and in accordance with ASTM F567. Gates shall be plum in the closed position, installed to slide with an initial pull force no greater than 40 lbs. (18.14 kg). Ground clearance shall be 3 in. (76 mm), grade permitting. Electrically operated gate installation must conform to ASTM F2200 and UL 325.

3.4 ELECTRICAL GROUNDING

1. Grounding: A licensed electrical contractor shall install grounding when required.
	1. CLEANING
2. Clean up debris and remove from the site.

END OF SECTION