

SECTION 08 34 56
SECURITY GATES

PART I - GENERAL

1.1 DESCRIPTION

A. This section specifies folding security gates and related components.

1.2 RELATED WORK

A. Door Hardware: Section 08 71 00, DOOR HARDWARE.

1.3 SUBMITTALS

A. General: For each gate assembly, submit the following in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.

1. Product data for each element of work, whether purchased from other manufacturers or provided as door Fabricator's standard production. Provide component construction, anchorage method, hardware and operator data.
2. Manufacturer's standard color chart for color selection. Submit two finish samples of selected color, illustrating final color and finish.
3. Shop drawings indicating opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations and installation details.
4. Installation Data: Manufacturer's special installation requirements, special procedures, and perimeter conditions requiring special attention.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver each assembly project site with fabrication, finishing, and assembly of primary panels, inserts, and frames completed and prepared for installation. Disassemble hardware for shipping only to extent hardware interferes with shipping.
- B. Refer to Division One for shipping requirements.
- C. Provide protection of pre-finished units, such as pre-finished with baked enamel or stainless steel, using self-adhesive paper.

1.5 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.

B. American Society for Testing and Materials (ASTM):

A153/A153M-09.....	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
A167-99(2009).....	Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
A653/A653M-09.....	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot- Dip Process
A1008/A1008M-09.....	Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High- Strength Low-Alloy, High-Strength Low- Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
A1011/A1011M-09a.....	Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Criterion Products, EG Series Folding Gates

2.2 MATERIALS, GENERAL

- A. Cold-Rolled Steel Sheets: ASTM A1008, commercial quality, except as otherwise indicated.
- B. Galvanized Steel Sheets: ASTM A653 with G90 zinc coating, mill phosphatized; commercial quality, except as otherwise indicated.
- C. Gate Body: 11 gauge steel channels and intermediate 3/16" steel flat bars.
- D. Lead & Rear Bars: 14 gauge formed steel box channels
- E. Top Guide: Full height vertical 11 gauge steel channels traveling through 14 gauge formed steel box channel top track.
- F. Inserts, Bolts, Fasteners: Standard units of strengths required to endure performances; hot-dip zinc coated where used in exterior wall assemblies in compliance with ASTM A 153, Class C/D.

G. Finish: Factory applied black, bronze or gray paint.

2.3 HARDWARE

A. General: Hasp suitable for locking gate in closed position, pivoting steel tie-back arm to hold gate in open position, see Section 08 71 00, DOOR HARDWARE.

2.4 FABRICATION AND ASSEMBLY

A. General: Fabricate, test, and preassemble gate assemblies with hardware at factory; disassemble hardware only to extent necessary for handling, packaging, shipment, and installation at Project. Fabricate metal work to comply with performance requirements. Fabrications shall be rigid, neat, and free from warp/buckle/similar defects, with eased edges and continuously-welded joints, ground where exposed, to produce smooth, flush, invisible joints. Weld in accordance with AWS D1.1, Structural Welding Code for Steel:

1. Prepare panels and frames of each assembly to receive hardware, devices, and accessory units as shown and scheduled. Reinforce work for hardware and devices, and cut work for mortised or concealed units; comply with ANSI A115 series specifications, working from templates supplied by unit manufacturers and suppliers:
 - a. Locate hardware, devices, and accessories as required by Section 08 71 00, DOOR HARDWARE.
2. Shop Painting: Provide base-coat, factory-applied painting of ferrous metal elements of assemblies.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Install gate assemblies in accordance with approved shop drawings, manufacturer's data and instructions, and requirements of these specifications. Install as required to achieve specified performances, and to comply with recommendations of related industry association or testing agency sponsoring standards for required non-security performances. Install door assemblies plumb and level:

1. Install assemblies in compliance with recommendations and instructions of ANSI A250.8 and ANSI A250.11.
4. Installer shall not grind any portion of door, frame or locking device strikes.

5. Locking device strikes shall engage strike plate without binding.

- B. Anchorage: The door manufacturer shall provide anchors appropriate for substrate to which door frame is to be fastened. The manufacturer shall verify substrates involved, and supply any special fastening tools (e.g., special drill or bit) required by anchoring system. The anchor shall have potential for removal during life of building.

3.2 ADJUST AND CLEAN

- A. General: Upon request of Project Manager, remove protective coverings and clean exposed surfaces. Repair damaged elements, restore abraded surfaces, touch-up base-coat paint finish with air-drying primer, and remove imperfections from exposed natural metal finishes.
- B. Check and readjust hardware, devices, and accessories with door-to-frame-and-sill/threshold clearances set for proper operation of locks, door seals, and other operational units.
- C. Comply with "Door Hardware" section requirements for protection and handling of keys and locking devices, and associated information.

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