



This section includes overhead type Parking Security Gates, as manufactured by Westgate Entrematic, a division of Helton Group of Companies.

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Part 1 General

1.1 SECTION INCLUDES

In this article, select the components or assemblies that are intended to be part of the content of this section and will not be included in other sections.

- .1 Overhead security gates.

1.2 RELATED SECTIONS

In this article, indicate those sections that inter-rely on this section. The listing below is only partial and should be edited to include those sections specific to the project that describe subjects or products that affect this section directly.

- .1 Section [05 50 00] - Metal Fabrications: Steel [post] [angle] opening frame.
- .2 Section [07 92 00] - Joint Sealants: Perimeter sealant and backup materials.
- .3 Section [08 71 00] - Door Hardware - General: Cylinder locks.
- .4 Division 26 - Electrical: Electrical service connection to door controller.
- .5 Division 28 - Electronic Surveillance: Door interconnection to security system.

1.3 REFERENCES

Edit this article after editing the rest of this section. Only list reference standards below, that are included within the text of this section, when edited for a project specification - delete other references that do not apply.

- .1 ASTM A653/A653M-08 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 ASTM B209M-07 - Aluminum and Aluminum-Alloy Sheet and Plate (ASTM B209-07 - Aluminum and Aluminum-Alloy Sheet and Plate).
- .3 ASTM B221M-07 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (ASTM B221-08 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes).
- .4 ASTM B429/B429M-10e1 - Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.
- .5 CAN/CSA-C22.2 No. 100-04 - Motors and Generators.
- .6 CSA-G40.20-04/G40.21-04 (R2009) - General Requirements for Rolled or Welded Structural Quality Steel/ Structural Quality Steel.



- .7 NEMA MG1-2006 - Motors and Generators.

1.4 SYSTEM DESCRIPTION

Use this article carefully; restrict statements to describe the combined result of the components used to assemble the system. Do not repeat statements made in the Section Includes article.

- .1 Panels: Aluminum frame and picket construction, [three (3)] sections high [with perforated aluminum sheet for photocell and emergency disconnect arm protection] [with concentrated picket placement for photocell and emergency disconnect arm protection].
- .2 Lift Type: Low headroom operating type with double track and hardware.
- .3 Operation: Electric.

1.5 SUBMITTALS FOR REVIEW

Do not request submittals if this specification section or drawings sufficiently describe the products of this section - or if proprietary specifying is used. This requested review of submittals increases the possibility of unintended variations to the contract documents, thus increasing a consultant's liability. The following submittals are intended for review to determine eligibility for the project.

- .1 Section [01 33 00]: Submission procedures.
- .2 Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- .3 Product Data: Provide component construction, anchorage method, hardware, and operator data.

Include the following paragraph for submission of physical samples for selection of finish, colour, texture, etc.

- .4 Samples: Submit [two (2)] finish samples, [_____] mm ([_____] inch)] in size, illustrating colour and finish.

1.6 SUBMITTALS FOR INFORMATION

The following submittals are for information only; do not request these submittals if the information submitted will be assessed for acceptability.

- .1 Section [01 33 00]: Submission procedures.

When manufacturer's written instructions for specific installation requirements are referenced in Part 3 Execution, include the following request for submittal of those instructions. Edit the Part 3 statements to avoid conflict with manufacturer's written instructions.

- .1 Installation Data: Manufacturer's special installation requirements, special procedures, perimeter conditions requiring special attention, and [_____].

Include the following ONLY if specifying for a LEED project. Specify only the technical requirements necessary to achieve the credits desired for this project.

- .2 Sustainable Design:
 - .1 Section [01 35 18]: LEED documentation procedures.
 - .2 Provide required LEED documentation for Product [recycled content] [regional materials].



- .3 Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

1.7 CLOSEOUT SUBMITTALS

The following submittals are for project close-out purposes.

- .1 Section [01 78 10]: Submission procedures.
- .2 Operation and Maintenance Data: Include data for [motor] [transmission] [shaft and gearing], lubrication frequency, spare part sources.

Coordinate the following paragraph with the WARRANTY article.

- .3 Warranty Documentation: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

Include the following ONLY if specifying for a LEED project.

- .4 Sustainable Design Closeout Documentation: [_____].

1.8 QUALITY ASSURANCE

This article includes statements that require quality applicable to the whole section.

- .1 Installer Qualifications: Company specializing in performing the work of this section with minimum [three (3)] years documented experience [and approved by the manufacturer].

1.9 REGULATORY REQUIREMENTS

Only include this article when required by applicable code criteria.

- .1 Conform to applicable code for motor and motor control requirements.
- .2 Products Requiring Electrical Connection: Listed and classified by [CSA] [UL] [testing firm acceptable to the authority having jurisdiction] as suitable for the purpose specified.

1.10 WARRANTY

- .1 Section [01 78 10]: Warranties.
- .2 Provide [five (5)] year manufacturer warranty for electric operating equipment.

Part 2 Products

2.1 MANUFACTURERS

This article is for proprietary specifying with one manufacturer.

- .1 Overhead Security Gate: Parking Security Gate, manufactured by Westgate Entrematic, 105 2285 Queen Street, Abbotsford, B.C. V2T 6J3. Telephone: 604-854-8788. Toll Free: 1-888-421-8788.
- .2 Substitutions: Not permitted.

2.2 MATERIALS

- .1 Steel Sections and Plates: CAN/CSA-G40.20/G40.21, Grade [300W] [350W].



- .2 Sheet Steel: ASTM A653/A653M galvanized to [Z180 (G60)] [Z275 (G90)] zinc coating designation.
- .3 Aluminum Sheet: ASTM B209M (ASTM B209), [5005] alloy, [H14] temper, perforated; pre-coated with [silicone polyester] finish; colour [_____].
- .4 Aluminum Extrusions: ASTM B221M (ASTM B221) or ASTM B429/B429M, 6063-T5 alloy and temper, colour [_____].

2.3 PANEL CONSTRUCTION

- .1 Panels: Aluminum rail and picket construction.
 - .1 Frame: 50 x 63 mm (2 x 2-1/2 inch) top rail.
 - .2 Horizontal Supports: 38 x 20 mm (1-1/2 x 3/4 inch) channel, punched for reinforcing pickets.
 - .3 Pickets: 16 mm (5/8 inch) square.
 - .4 Support Plates: Nominal 100 x 150 x 5 mm (4 x 5 x 3/16 inch) aluminum plates located at top and bottom corners.
 - .5 Motor Arm Support: Nominal 600 x 100 x 5 mm (24 x 4 x 3/16 inch) welded to front and back of top section.

Perforated aluminum panels may be substituted for standard concentrated picket design to protect photocells and emergency disconnect arm. Delete if not required.

- .6 Perforated Panels: Aluminum, 3 mm (1/16 inch) thick.

2.4 GATE LIFTING COMPONENTS

Jamb posts may be specified in Metal Fabrications.

- .1 Jamb Posts: [100 x 100 x 5 mm (4 x 4 x 3/16 inch) posts] [75 x 125 x 6 mm (3 x 5 x 1/4 inch) angle] [As specified in Section [05 50 00]]; [powder coated] [painted] to match gate sections.
- .2 Track: Rolled commercial grade galvanized steel, [2.3 mm (0.090 inch)] [3.0 mm (0.120 inch)] thick; [50 mm (2 inch)] [75 mm (3 inch)] wide, continuous one piece per side; mounted on continuous 75 x 75 mm (3 x 3 inch) angles.
- .3 Hinge and Roller Assemblies: Heavy duty hinges, minimum 3.0 mm (11 gauge) with welded reinforcing plates; adjustable roller holders of [galvanized steel] [stainless stainless]; floating hardened steel bearing rollers, located at top and bottom of each panel, each side.
- .4 Isolators: Two (2) vibrasonic sound isolators.

2.5 GATE OPERATOR

Include and edit this article for electric operation. Select one or more of the following subparagraphs appropriate to the equipment requirements.

- .1 Electrical Characteristics:
 - .1 375 W (1/2 hp); manually operable in case of power failure.
 - .2 115 volts, single phase, 6 amp.
 - .3 Refer to [Division 26] [Section [26 05 80]]: Electrical connections.

NEMA Type 1 is General Purpose, Type 4 is Totally Enclosed.



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.2 Motor: [CAN/CSA C22.2 No. 100] [NEMA MG1, Type [____]]; built-in timer.



- .3 Electric Operator:
 - .1 Centre mounted draw bar assembly, adjustable safety friction clutch.
 - .2 Brake system actuated by independent voltage solenoid controlled by motor starter; enclosed gear driven limit switch; enclosed magnetic cross line reversing starter; mounting brackets and hardware.

2.6 OPENER CONTROL

Select and edit one of the following two paragraphs. Select type and quantity of control stations when specifying electric motors.

- .1 Control Station:
 - .1 Standard [three (3)] [one (1)] button (open-close-stop) [momentary] [continuous pressure] type, control for each electric operator; [24] volt circuit, surface mounted.
 - .2 Include key operated switch located at [inside gate jamb] [exterior location indicated].

Expand the following paragraph with text description appropriate to project requirements; remove if not applicable.

- .2 Interconnection to Security System: As specified in [Division 28].
- .3 Entry: [Key fob, [visor mounted] [keychain]] [Digital keypad] [Proximity card].
- .4 Exit: [Key fob, [visor mounted] [keychain]] [Digital keypad] [Proximity card] [Inground loop detector] [Above ground treadle hose].
- .5 Safety Edge: At bottom of gate panel, full width; [pneumatic sensitized type, wired to stop and reverse gate upon striking object] [photo cell beams].
- .6 Photocell Beams: Infra-red photo-electric cells positioned across indoor face of opening to reverse door closing travel to full open position and initiate delayed automatic closing cycle when detecting vehicle or obstruction.

2.7 FABRICATION

- .1 Fabricate gate consisting of [three (3)] framed sections with vertical pickets welded at 114 mm (4-1/2 inches) on centre.
- .2 Provide top and bottom corner support plates.
- .3 Taper bottom gate section to allow for slope in floor.
- .4 [Provide perforated aluminum sheet] [Concentrate picket spacing at 56 mm (2-1/4 inch) on centre] welded at gate bottom each side to protect photocells and at centre of gate to protect emergency disconnect arm.

Part 3 Execution

3.1 EXAMINATION

- .1 Section [01 70 00]: Verify existing conditions before starting work.
- .2 Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.



- .3 Verify that electric power is available and of the correct characteristics.

3.2 PREPARATION

- .1 Prepare opening to permit correct installation of gate.

3.3 INSTALLATION

Only include the following paragraph if a manufacturer actually publishes installation instructions - many do not. If the manufacturer does NOT publish such a document, ensure all install criteria that is important to the project, is specified below.

- .1 Install gate assembly to manufacturer instructions.
- .2 Anchor assembly to wall construction and building framing without distortion or stress.
- .3 Securely brace gate tracks suspended from structure. Secure tracks to structural members only.
- .4 Fit and align gate assembly including hardware.
- .5 Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.
- .6 Coordinate installation of sealants and backing materials at frame perimeter as specified in Section [07 92 00].
- .7 Install perimeter trim and closures as detailed.

3.4 ERECTION TOLERANCES

Do not assume that there are industry standards for tolerances. Specify tolerances below as appropriate to the nature or character of the project. Verify that such tolerances are realistic and realizable.

- .1 Section [01 73 00]: Tolerances.
- .2 Maximum Variation from Plumb: 1.5 mm (1/16 inch).
- .3 Maximum Variation from Level: 1.5 mm (1/16 inch).
- .4 Longitudinal or Diagonal Warp: Plus or minus 3 mm (1/8 inch), from 3 m (10 ft) straight edge.
- .5 Maintain dimensional tolerances and alignment with adjacent work.

3.5 MANUFACTURER'S FIELD SERVICES

This article is included to assist in field quality control of work being installed. The legal affect of this type of article is questionable and will not relieve the design professional of legal responsibility for the work described in this section. Specify with some measure of caution.

- .1 Section [01 78 10]: Prepare and start components.
- .2 Ensure the operation and adjustments to gate assembly for specified operation.

3.6 ADJUSTING

- .1 Adjust gate assembly to smooth operation.



3.7 CLEANING

This article is intended to supplement cleaning requirements specified in Division 01 sections. Edit this article to supplement Division 01 statements.

- .1 Clean gate and frame.
- .2 Remove [temporary] labels and visible markings.

3.8 PROTECTION OF FINISHED WORK

- .1 Do not permit construction traffic through overhead gate openings after adjustment and cleaning.

END OF SECTION