

SPEC NOTE: This Section specifies PostDrive SpeedGate, an electronic high speed, vehicular perimeter security gate, suitable for airports, port authorities, military bases, money-transport companies and other locations requiring strict safety measures.

PART 1 GENERAL

1.1 THE TOP TRACK SPEEDGATE IS A POST DRIVEN ELECTRICALLY OPERATED FAST ACTING BI-FOLD GATE.

1.2 ALL STRUCTUAL COLUMNS, DRIVE UNIT, CONTROLLER, GATE PANELS BY WALLACE PERIMETER SECURITY.

1.3 RELATED SECTIONS

- .1 Section 01 33 13 - Submittal Procedures.
- .2 Section 01 74 20 - Construction Waste Management and Disposal.
- .3 Section 01 78 00 - Closeout Submittals.
- .4 Section [_____]: Fencing.
- .5 Section 03 30 00 - Cast-in-Place Concrete: Structural portal foundations.

SPEC NOTE: Coordinate the following paragraph with electrical sections to ensure electrical supply is provided to suit the gate requirements. Normally the electrical power supply to terminal box in each unit is specified in Division 16. All remaining electrical work is specified in this Section.

- .6 Section [_____]: Electrical service and connections.

1.4 SUBMITTALS

- .1 Shop Drawings:
 - .1 Submit final assembly drawings in accordance with Section 01 33 13 - Submittal Procedures.
 - .2 Indicate electric power requirements, installation details, wiring diagrams.
- .2 Installation instructions:
 - .1 Submit two copies of manufacturer's written installation instructions.
 - .2 Submit reference list of five (5) installations of the specified type within the last 2 years.
- .3 Test reports:
 - .1 Drive unit shall bear a label indicating that the gate controller/operator mechanism has been tested certified to UL 325 and CSA C22.2 No. 247 standards for all electrical components.

1.5 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for gate for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
- .2 Conduct comprehensive demonstration for maintenance staff on operation and care of gate.

1.6 QUALITY ASSURANCE

- .1 Manufacturer: A company specializing in the manufacture of electric gate operators.
- .2 Installer: A minimum of three years' experience installing similar equipment and approved by manufacturer.

PART 2 PRODUCTS

2.1 HIGH SPEED VEHICLE ACCESS GATE

- .1 Manufacturers:
 - .1 Wallace Perimeter Security Model PDTT Series SpeedGate
Contact Wallace Perimeter Security:
115 Lowson Crescent, Winnipeg, Manitoba Canada, R3P 1A6
T. 866.300.1110
www.wallaceperimetersecurity.com

2.2 MATERIALS

- .1 Steel sheet: hot dipped galvanized to ASTM A653/A653M, A36 pre galvanized steel.
- .2 Steel sections: to ASTM (Canadian Equivalent - CAN/CSA G40.21) Grade [300W] [350W].
- .3 Welding materials: to ASWD 1.1 (Canadian Equivalent - CSA W59).
- .4 Electrical components: Complete gate system to be UL325 listed and/or CSA C22.2 No.247 and complying with local requirements.
- .5 Power Supply: 208/240 V – 20 Amp single phase power supply.

2.3 COMPONENTS

- .1 Gate Columns:
 - .1 Formed steel columns, anchored to concrete foundation.
 - .2 Columns to be 12" square with a wall thickness of .250".
- .2 Model PDTT:
 - .1 Dimensions: [max 14] ft high x [max 24] ft clear opening OR [max 16] ft high x [max 18] ft clear opening.
 - .2 Panels to be capable of fully opening within 7 seconds.
 - .3 Panels: [1.5" vertical bar infill] [non-climbable infill] [6-gauge welded wire infill] [6-gauge woven wire infill].
 - .4 Manufacturer's standard corrosion resistant hinges. Hinges are to be heavy duty corrosion resistant base material with a minimum 1" stainless steel shaft.
 - .5 Fully compliant with ASTM F2200 – 05, Class I through Class IV.

SPEC NOTE: Safety devices are installed to minimize likelihood of vehicle or pedestrian injury/entrapment. Edit the following paragraphs for safety feature options required for project. Pedestrians are NOT permitted to use the automated gate and must be provided with a separate, clearly marked access point.

MANUFACTURER'S NOTE: Complete gate system to be UL325 listed and/or CSA C22.2 No.247 and complying with local requirements.

** Gate infill type will dictate maximum width/height. Contact Wallace Perimeter Security for further details.*

- .3 Safety/Obstruction Devices:
 - .1 Provide reduced speed sensor - Absolute encoder mounted directly to drive motor to act as entrapment detection device.
 - .2 Photoelectric transmitter and receiver: Equip each column with [1] built-in photocell(s) at 20" above the base plate. To be mounted within the columns.
 - .3 Provide 2 channel obstruction loop relay card for integration of dual obstruction loops.
 - .4 Provide sensing edges as per UL update.

Manufacturer's Note: Control unit to be located within 30 ft. of the gate structure, 2 conduits (recommend 2") for communication/power cabling to gate structure. Control unit not to be mounted within arm's reach of the automated gate.

- .4 Drive Unit:
 - .1 Provide variable frequency drive with programmable logic controller for controlling electro-mechanical drive system. Drive system to incorporate encoders with reduced speed sensing software as entrapment detection device.
 - .2 All drive electrical components to be enclosed in weather-resistant housing.
 - .3 Dual .75 HP 3 Phase gear motors with integrated brake and 360:1 gear reduction box with synthetic lubricant.
 - .4 Emergency override: Provide secured access panel for manual opening and closing in case of power failure/malfunction.
 - .5 Electrical motors, control units, relays and other electrical components: to ____ approval.

2.4 FINISHES

- .1 Select from:
 - .1 [Hot dip galvanized finish [0.5] kg/m² zinc coating to ASTM A653/A653M (CAN/CSA G164)].
 - .2 [Powder coated to 80 micron thickness - standard RAL colors- check with manufacturer before specifying color.]

2.5 PRODUCT OPTIONS

- .1 [Anti climb perforated steel]
- .2 [Red / Green traffic lights]
- .3 [Fence Mounting Devices: Provide mounting brackets for mounting adjoining fence material to columns.]
- .4 [UPS Backup: Provide Uninterruptible Power Supply to variable speed gate controller for emergency operation in event of power outages.]

PART 3 EXECUTION

3.1 INSTALLATION

- .1 Provision of concrete foundations as determined by local engineer according to drawings provided.
- .2 Install high-speed security gate to manufacturer's written instructions, by contractor certified by Wallace Perimeter Security.
- .3 Submit certificate of installation to manufacturer upon completion of installation for warranty validation.

3.2 CLEANING AND MAINTENANCE

- .1 Perform cleaning and maintenance procedures in strict accordance with manufacturer's written instructions.
- .2 Maintain logbook of repairs and maintenance.

END OF SECTION