# General

## The trackless speedgate is a post driven electrically operated FAST ACTING BI-fold GATE.

## All STRUCTUAL columns, drive unit, controller, GATE panels by Wallace Perimeter Security.

## RELATED SECTIONS

### Section 01 33 13 ‑ Submittal Procedures.

### Section 01 74 20 - Construction Waste Management and Disposal.

### Section 01 78 00 ‑ Closeout Submittals.

### Section [\_\_\_\_\_\_\_\_\_\_]: Fencing.

### Section 03 30 00 - Cast-in-Place Concrete: Structural portal foundations.

### Section [\_\_\_\_\_\_\_\_\_]: Electrical service and connections.

## SUBMITTALS

### 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.

### 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.

### 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.

## CLOSEOUT SUBMITTALS

### Provide operation and maintenance data for gate for incorporation into manual specified in Section 01 78 00 ‑ Closeout Submittals.

### Conduct comprehensive demonstration for maintenance staff on operation and care of gate.

## QUALITY ASSURANCE

### Manufacturer: A company specializing in the manufacture of automated gate systems.

### Installer: A minimum of three years experience installing similar equipment and approved by manufacturer.

# Products

## HIGH SPEED ELECTRONIC SECURITY GATE

### Manufacturers:

#### .1 Wallace Perimeter SecurityModelPDXT SeriesSpeedGateContact Wallace Perimeter Security:

####  115 Lowson Crescent, Winnipeg, Manitoba Canada, R3P 1A6

####  T. 866.300.1110 F. 204.284.1868

####  wallaceperimetersecurity.com

## MATERIALS

### Steel sheet: hot dipped galvanized to ASTM A653/A653M, A36 pre galvanized steel.

### Steel sections: to ASTM (Canadian Equivalent - CAN/CSA‑G40.21) Grade [300W] [350W].

### Welding materials: to ASWD1.1 (Canadian Equivalent - CSA W59).

### Electrical components: Complete gate system to be UL325 listed and/or CSA C22.2 No.247 and complying with local requirements.

### Power Supply: 208/240 V – 20 Amp single phase 60 hertz power supply.

## COMPONENTS

### Gate Columns:

#### .1 Formed steel columns, anchored to concrete foundation.

#### .2 Columns to be 12” square with a wall thickness of .250”.

### Model PDXT:

#### .1 Dimensions: [max 8] ft high x [max 24] ft clear opening OR [max 10] 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] [6 gauge welded wire infill] [6 gauge woven wire infill].

#### .4 Manufacturer's standard corrosion resistant hinges. Hinges are to be serviceable 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.

### Safety/Obstruction Devices:

#### .1 Provide reduced speed sensor - Absolute encoder mounted directly to drive motor to act as primary entrapment detection device.

#### .2 Photoelectric transmitter and receiver: Equip each column with [2] built-in photocells at 20” [and] [60] inches above the base plate. To be mounted within the columns.

#### .3 Provide 2 channel obstruction loop relay card for integration of dual obstruction loops.

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.

### 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 primary entrapment detection device.

#### .2 All drive electrical components to be enclosed in weather-resistant housing.

#### .3 Dual .75HP 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.

## FINISHES

### 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] .

## PRODUCT OPTIONS

### [Anti climb top guard]

### [Red / Green traffic lights][For Entrance][For Exit].

### [Fence Mounting Devices: Provide mounting brackets for mounting adjoining fence material to columns].

### [UPS Backup: Provide Uninterruptible Power Supply to variable speed gate controller for emergency operation in event of power outages].

# Execution

## INSTALLATION

### Provision of concrete foundations as determined by local engineer according to drawings provided.

### Install high-speed security gate to manufacturer's written instructions, by contractor certified by Wallace Perimeter Security.

### Submit certificate of installation to manufacturer upon completion of installation for warranty validation

## CLEANING AND MAINTENANCE

### Perform cleaning and maintenance procedures in strict accordance with manufacturer’s written instructions.

### Maintain logbook of repairs and maintenance.

### **END OF SECTION**