



## **Architectural Specification**

### **OUTLAW FULL HEIGHT SECURITY TURNSTILE**

SECTION 11 14 00 – Pedestrian Control Equipment (Gates/Turnstiles)

#### **PART I – GENERAL**

##### **1.01 SECTION INCLUDES**

- A. This section covers the furnishing and installation of a full-height AG-30-T security turnstile. Provide a complete system that has been fabricated and tested for proper operation at the factory. It includes information on the locking mechanism housing, rotor assembly, barrier assembly and shield assembly as required for installation.
- B. Overall dimensions for single turnstile are 90" tall, 66" wide (60", 66", 85" widths available), and 60" deep (53", 60", 65" depths available)

##### **1.02 RELATED SECTIONS**

- A. Section 08400 - Entrances and Storefronts
- B. Section 16123 - Electrical Supply and Termination
- C. Section 10450 – Pedestrian Control Devices

##### **1.03 QUALITY ASSURANCE**

- A. The manufacturer shall be a company specializing in the supply of security turnstiles with a minimum of 10 years of experience.
- B. The installer shall have a minimum of 5 years installing similar equipment, or shall supply a factory-trained supervisor during the installation of the turnstile.

##### **1.04 SUBMITTALS**

- A. Submit project specific shop drawings, specifications and finish samples.
- B. Indicate pertinent dimensions, general construction, component connections and location, anchorage methods and locations, hardware and installation details.

##### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials to the job site in the manufacturer's packaging undamaged, complete with installation instructions.
- B. Store off the ground, undercover, protected from weather and construction activities.

##### **1.06 PROJECT/SITE CONDITIONS**

- A. Install the Outlaw AG-30-T security turnstile on the finished floor. The floor must be level at any point within the footprint of the turnstile.

##### **1.07 WARRANTY**

OUTLAW INDUSTRIES warrants its products against defects in material and workmanship for a period of eighteen (18) months from the date of shipment of the product. This warranty excludes glass breakage, normal wear on finishes or damage that occurs due to abuse, misuse or acts of God.



## **PART II – PRODUCTS**

### **2.01 MANUFACTURER**

Outlaw Industries AG-30-T as manufactured by,  
Outlaw Industries, Calhan Colorado 80808

#### **2.01.1 PRODUCT**

Outlaw AG-30-T Full height Security Turnstile, No substitutions. Features of this turnstile shall include a self-centering mechanism to maintain rotor at the stop position, a tamper-proof ceiling, IP 56-rated top channel cover to house mechanical and electrical controls and a UL listing (i.e., 294) for the turnstile.

### **2.02 TURNSTILE CONSTRUCTION**

- A. Mechanism Housing: is constructed from a 14" wide structural steel channel. All electrical and mechanical components are attached to the channel. The channel and operating mechanism are covered by an 18 gauge stainless steel cover.
- B. Ceiling Plate: Fabricated from 16 gauge Stainless Steel attaches to the Header housing and spans the cage assembly.
- C. Rotor Assembly: consists of a 3-inch center tube with Three sets of 13 arms welded at 120 degrees each. Construction material is dependant on the finish of the turnstile, Powder-coated steel, Galvanized steel, Stainless steel.
- D. Comb assembly: fabricated using a 2x4 x 1/8 vertical post with horizontal 1-3/4 tube arms equally spaced at an offset to the rotor arms.
- E. Cage Assembly: is constructed bt 1 3/4 vertical tubing and hot-rolled 1-3/4 horizontal tubing All components are welded together to form a one-piece construction. The radius of the cage guides personal flow and permits internal card wiring.
- F. Arms: 1-3/4 tubing with 1/8 wall thickness Each arm is closed with a plastic insert or a welded and spun closed polished end
- G. Bottom bearing: Stainless steel axis and tapered roller bearing with 1700lbs axial load. Stainless steel floor plate with 4 anchor holes.

### **2.03 EQUIPMENT**

- A. Controls: One-way mechanical turnstiles use a steel ratchet assembly to direct traffic flow.
- B. Electric turnstiles use a heavy-duty electro-mechanical ratchet and pawl operating mechanism to restrict traffic flow. All electrical controls are 24-36 VDC. A step-down transformer is supplied. Please specify if using 110VAC. Or 220 VAC.

### **2.04 SECURITY EQUIPMENT**

- A. Actuation: Barrier actuation by External access control software/hardware by others.

### **2.05 OPERATING SPECIFICATIONS**

- A. The locking and unlocking of the turnstile is accomplished by the use of a low voltage, 24 VDC system. Activation is by a momentary isolated normally open dry contact closure.
- B. Electrical controls are available in both entrance and exit directions. Controls may be fail-safe or fail-secure or any combination, in either controlled direction. All turnstiles are built to the customer's specified configuration. The set up can be changed in the field without additional spare parts.



- C. All fail secure applications can be unlocked with a key that will allow free access in case of emergency or power loss.
- D. Once a direction of passage is opened, it will remain open until the user proceeds through to the other side of the turnstile. Once the user proceeds through the turnstile, the reset system automatically relocks the turnstile and readies it for the next user. A configurable time out feature is standard.
- E. Double turnstiles can have as many as two controlled entry points and two controlled exit points. Each of the controller's points operates completely independently from any other direction of travel.

### 2.06 FINISHES

- Hot dipped galvanized
- Powder-coated black. Other RAL colors of powder-coating available.
- Complete # 304 stainless steel
- 316 stainless steel for coastal and corrosive environments

### 2.07 STANDARD FEATURES

- 3-rotor sections
- Fail-lock or fail-safe for electrical configurations
- Free or locked exit for mechanical configurations
- Pulse relay
- Time-out Relay
- Field configurable mechanism
- Mechanical key overrides

### 2.08 AVAILABLE OPTIONS

- Out-of-use-lock
- Remote release pushbutton
- Red/ green indicator lights
- Heel protectors
- Programmable Microprocessor with opto-isolated inputs and outputs, allowing programming of hold-open functions as well as independent fire inputs and position indication, etc.
- Rotor covers
- Shield panel of expanded metal (galvanized or stainless steel mesh), or full Lexan, or stainless steel
- Second side shield
- Tandem Unit (two rotors within one framework - 102" model standard)
- Extended overall sizes for specific models
- 4-hour battery back-up

### 2.09 SPECIFICATIONS

- Height: 90"
- Width: 66"
- Depth: 60"
- Shipping weight: 750 lbs



### **PART III – EXECUTION**

#### **3.01 INSTALLATION**

A. Inspection: Installer must examine the location and advise the Contractor of any site conditions unacceptable for proper installation of product. These conditions include but are not limited to the following:

1. Floor must be level at any point within the footprint of the turnstile.

Install shall not begin until these unacceptable conditions are rectified.

- B. Installation: Install turnstiles in accordance with manufacturer's printed instructions. Set units level, plumb and with uniform hairline joints. Anchor securely into place. Use only factory trained installers.
- C. Adjustment: Installer shall adjust turnstile, hardware and sensors for smooth operation and proper performance.
- D. Maintenance: Follow maintenance procedures as outlined in the Instruction or Operation Maintenance Manual.
- E. Cleaning: Clean metal surfaces carefully after installation to remove excess caulk, dirt and labels.

**MANUFACTURER RESERVES THE RIGHT TO CHANGE THIS SPECIFICATION ANY TIME WITHOUT NOTICE**