

**ARCHITECTURAL SPECIFICATION****EDC-BN-3 Waist High Turnstile with Bullnose Cabinet****AVAILABLE FINISHES****EDC-BN-3SS – Stainless Steel****EDC-BN-3PF – Powder Coat Finish****SECTION 08 71 00 – Door Hardware****PART I – GENERAL****1.01 SECTION INCLUDES**

- A. This section covers the furnishing and installation of a manual waist high security turnstile.
- B. For further information, call the factory at +1 909.591.8431 and ask for the technical support department; or email support@alvaradomfg.com.

**1.02 RELATED SECTIONS**

- A. SECTION 11 14 00 – Pedestrian Control Equipment

**1.03 QUALITY ASSURANCE**

- A. Manufacturer shall specialize in the manufacture of security turnstiles and have a minimum of 10 years' experience.
- B. Installer shall have a minimum of one year experience installing similar equipment, or shall supply a factory representative during installation of the turnstile.

**1.04 SUBMITTALS**

- A. Submit manufacturer's descriptive literature for specified equipment, including options.
- B. Provide dimensional layout, installation instructions, and anchoring instructions.
- C. Provide shop drawings, if required.

**1.05 DELIVERY, STORAGE AND HANDLING**

- A. Deliver materials to job site in manufacturer's packaging undamaged, complete with installation instructions.
- B. Store off ground, under cover, protected from weather, construction activities and debris.
- C. Use forklift or pallet jack equipment as required for moving.

**1.06 PROJECT/SITE CONDITIONS**

Install the EDC-BN-3 on a level concrete pad.

**1.07 WARRANTY**

Alvarado warrants its products against defects in material and workmanship for a period of one (1) year from the date of invoicing. The warranty covers defects in materials and workmanship and does not cover freight, labor or incidental costs. Obtain full warranty terms from Alvarado.

**PART II – PRODUCTS****2.01 MANUFACTURER**

Alvarado Mfg. Co., Inc. 12660 Colony Street, Chino, CA 91710.

**2.02 PRODUCT**

EDC-BN-3 Waist High Turnstile with Bullnose Cabinet, no substitutions. Features of the turnstile shall include: key override control in both directions; hydraulically dampened self-centering arm rotation; dual key lid locks and ability to convert turnstile to electric lock control in the field if desired. Note: Self-centering through spinning and settling is not acceptable. The hydraulic dampening shall be of a quality such that when

lock arms are disengaged, the turnstile shall rotate only once and shall self-center when the turnstile arms are engaged with up to 115 lbs. of force.

## **2.03 CONSTRUCTION**

### **A. Interior Operating Mechanism:**

1. The ratchet assembly shall be cast stainless steel. Laminated steel is not acceptable.
2. Bearings shall be sealed, precision type.
3. Rotation shall be hydraulically dampened and shall self-center using a long-lasting rotational style dampener. The hydraulic dampening shall be of a quality such that when lock arms are disengaged, the turnstile shall rotate only once and shall self-center when the turnstile arms are engaged with up to 115 lbs. of force.
4. Mechanical key overrides shall be provided for both directions of rotation.

### **B. Cabinet:**

1. The cabinet shall be formed and welded 14-gauge steel. Exterior welds are ground smooth. There shall be no exterior fasteners used or visible on the cabinet.
2. The lid shall be 16-gauge stainless steel, have hinged operation and shall contain two lock assemblies (locks keyed alike) to securely attach the lid to the cabinet. The mating between the lid and cabinet shall be flush (not overlapping).
3. The interior portion of the cabinet shall have a splash lip at the point where the lid and cabinet meet to protect the interior portion of the cabinet from water.

### **C. Head and Arms:**

1. The turnstile head shall be a solid piece of aluminum, machined to an attractive conical shape. Finish shall be clear anodized.
2. The turnstile arms shall be 1.5" x 16-gauge stainless steel tubing polished to a #4 satin finish. The visible portion of the arms shall have a welded stainless steel cap with welds polished smooth. The arms shall press fit into the head and be welded from the back for superior holding strength over arms fastened into the head. The arms shall extend 15.5" from the inside edge of the cabinet.

## **2.04 FACTORY TESTING**

- A. Product shall be fully tested at the factory prior to shipment.
- B. Check all mechanical connections.
- C. Inspect product finish. Touch up prior to shipment.

## **2.05 FINISH**

- A. Stainless Steel: The cabinet and lid shall be fabricated from stainless steel with a #4 satin finish.  
OR

- B. Powder Coat: The cabinet shall be painted in a powder coat color specified by the project requirements. The stainless steel lid shall have a #4 satin finish. The aluminum head and stainless steel arms shall not be painted.

## **2.06 AVAILABLE OPTIONS**

- A. Battery-Powered Counter: A lithium battery-powered seven digit LCD counter is installed. Each rotation of the turnstile arm generates a count. One counter required per direction of travel. One counter is required per direction of travel and counters can be ordered either continuous or key resettable to "0".
- B. Computerized Counting: Each turnstile rotation outputs a count to GateWatch, Alvarado's Windows based facility counting software program.
- C. Extended Bullnose Cabinet: The cabinet and turnstile arms are extended for a wider patron passageway. (Note: Extended bullnose cabinets are 43.5" long; turnstile arms are cabinets are 20" long).

## **PART III – EXECUTION**

### **3.01 SITE EXAMINATION**

- A. Inspection: Installer must examine the installation location and advise the Contractor of any site conditions inconsistent with proper installation of the product. These conditions include but are not limited to the following:
  1. Turnstile must be installed on a level concrete pad.
  2. Installation shall not begin until unacceptable conditions are rectified.
- B. Installation: Install turnstiles in accordance with manufacturer's instructions.

- C. Adjustment: Installer shall adjust turnstiles for proper performance after installation.
- D. Instruction: A factory trained installer shall demonstrate to the owner's maintenance crew the proper operation and the necessary service requirements of the equipment, including exterior maintenance.
- E. Cleaning: Clean turnstile and area carefully after installation to remove excess caulk, dirt and labels.

**Note: this specification includes recommended options. Alvarado Mfg. Co., Inc. reserves the right to change this specification at any time without notice.**