

Division 11 | Equipment

This design guideline is written to the designer of record (DOR). This guideline is written to document UA standards of work, assist the designers in ensuring UA standards are incorporated into the contract documents and provide a resource to facilitate the design process. It is the designer of record's responsibility to coordinate the criteria set forth in design guideline and in conjunction with the manufacturer requirements and use the most stringent standard.

On unique projects where special equipment is necessary for accessing light fixtures and /or mechanical equipment, the special equipment (i.e. scissor lift, etc.) shall be specified to be provided in the project specifications.

Section 11 14 13 – Turnstiles

Part I – General

Philosophy and Approach

An access control system without barriers in which those attempting to enter are evaluated by closed-circuit television or other visual means.

References

- A. ETL listed as per UL2593
- B. CSA listed as peer CSA C22.2 #247

Quality Assurance

- A. Manufacturer shall be a company specializing in the manufacture of motorized optical security turnstiles and shall have a minimum of 10 years' experience.
- B. Installer shall have a minimum of three years' experience installing similar equipment, or shall supply a factory-trained supervisor during installation of the product.

Submittals

- A. Submit manufacturer's descriptive literature for specified equipment, including options.
- B. Provide, upon request, site specific drawings and / or installation templates, showing product placement.
- C. Provide installation and operation manuals.

Delivery, Storage and Handling

- A. Deliver materials to job site in manufacturer's packaging undamaged, complete with installation instructions.
- B. Store indoors in a controlled environment, protected from weather, construction activities and debris.



- C. Use forklift, pallet jack or equivalent equipment for moving.

Project / Site Conditions

- A. Install on a level floor.

Warranty

- A. Optical turnstiles must be warrantied against defects in material and workmanship for a period of 18 months from the date of invoicing.

Part II – Products

Manufacturers

- A. The following manufacturers are approved with documentation that all provisions of this guide line are met. Other manufacturers may be approved with sample and documentation.
 1. Alvarado Mfg. Col., Inc. 12660 Colony Street, Chino, CA 91710 – USA
 2. Boon Edam Inc. 402 McKinney Parkway, Lillington, NC 27546 – USA
 3. Hayward Turnstiles Inc. 160 Wampus Lane, Milford, CT 06460 – USA

Product

- A. Optical Turnstile with Motorized Swinging Barriers, no substitutions. Include the following options: Provide a monitoring and control software which allows operational management of turnstiles using a web-based application to run over a TCP/IP network.

Construction

- A. Exterior: #304 stainless steel, #4 satin finish.
- B. Interior Frame: Black, powder coated steel with openings for conduit.
- C. Decorative Lid: Solid surface acrylic; Color: Black
- D. Clear Side Panels and Moving Barriers:
 1. *Clear Side Panels*: 0.5” (13mm) thick cast acrylic having 90% optical clarity and an abrasion resistant coating.
 2. *Moving Barriers*: Two barriers fabricated from 0.5” (13mm) or 0.75” (19mm) thick cast acrylic having 90% optical clarity, pure water white edges and an abrasion resistant coating.

Part III – Execution

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. Installation shall not begin until



unacceptable conditions are rectified. These conditions include but are not limited to the following:

1. Floor must be level within the footprint of the turnstile.
 2. Primary power must be installed prior to turnstile installation.
 3. Power and communication wiring to come from the floor through conduit stub up locations per manufacturer directions, or via alternate methods if manufacturer is contacted and approves.
- B. Installation: Install turnstiles in accordance with manufacturer instructions. Installer to be factory trained or a factory representative shall be present to oversee installation.
- 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, or designated representative, the proper operation and the necessary service requirements of the equipment.
- E. Cleaning: Clean metal, acrylic and optic surfaces carefully after installation to remove excess caulk, dirt and labels following the manufacturer directions.

- End -