SECTION 08 33 00

**Rolling Exam Room Configured Counter Shutters**

**GENERAL NOTES TO SPECIFIER:**

This specification section has been prepared to assist design professionals in the preparation of project or office master specifications. It follows guidelines established by the construction specifications institute, and therefore may be used with most master specification systems with minor editing.

Edit carefully to suit project requirements. Modify as necessary and delete items that are not applicable. Verify that referenced section numbers and titles are correct. (Numbers and titles referenced are based on MasterFormat®, 2004 edition).

This section assumes the project manual will contain complete Division 01 documents including sections 01 33 00 Submittal Procedures, 01 62 00 Product Options, 01 25 13 Product Substitution Procedures, 01 66 00 Product Storage and Handling Requirements, 01 77 00 Closeout Procedures, and 01 78 00 Closeout Submittals. If the project manual does not contain these sections, additional information should be included under the appropriate articles.

This is an open proprietary specification allowing users the option of approving other manufacturers which comply with the criteria specified herein.

**\*\* NOTES TO SPECIFIER \*\*** are highlighted in red text and should be deleted from final copy.

Optional items requiring selection by specifier are enclosed within brackets, e.g.: [35] [40] [45]. In cases where one of the optional items is a standard feature of the door model, it is listed in the first position. Make appropriate selection and delete others.

Items requiring additional information are underlined and highlighted, e.g.: \_\_\_\_\_\_\_\_\_\_\_\_.

**PART 1** GENERAL

1.1 SUMMARY

A. **Section Includes:** Electric operated rolling exam room configured counter doors

B. **Related Sections:**

1. 05 50 00 Metal Fabrications. Door opening jamb and head members

2. 06 10 00 Rough Carpentry. Door opening jamb and head members

3. 08 31 00 Access Doors and Panels. Access doors

4. 08 70 00 Hardware. Padlocks. Masterkeyed cylinder

5. 09 91 00 Painting. Field painting

6. Division 26. Electrical wiring and conduit, fuses, disconnect switches, connection of operator to power supply, and installation of control station and wiring

C. **Products That May Be Supplied, But Are Not Installed Under This Section:**

1. Control Station

1.2 SUBMITTALS

A. **Reference Section 01 33 00 Submittal Procedures;** submit the following items:

1. **Product Data**

2. **Shop Drawings:** Include special conditions not detailed in Product Data. Show interface with adjacent work.

3. **Quality Assurance/Control Submittals:**

a. Provide manufacturer ISO 9001:2015 registration

b. Provide manufacturer and installer qualifications - see below

c. Provide manufacturer's installation instructions

4. **Closeout Submittals:**

a. Operation and Maintenance Manual

b. Certificate stating that installed materials comply with this specification

1.3 QUALITY ASSURANCE

A. **Qualifications:**

1. **Manufacturer Qualifications:** ISO 9001:2015 registered and a minimum of five years experience in producing counter doors of the type specified

2. **Installer Qualifications:** Manufacturer’s approval

1.4 DELIVERY STORAGE AND HANDLING

A. Reference Section 01 66 00 Product Storage and Handling Requirements.

B. Follow manufacturer’s instructions.

1.5 WARRANTY

A. **Standard Warranty:** Two years from date of shipment against defects in material and workmanship

B. **Maintenance:** Submit for owner’s consideration and acceptance of a maintenance service agreement for installed products

1.6 System Description

\*\*NOTE TO SPECIFIER\*\* If your project does not involve a custom layout or custom product modifications, please delete B and C. If you are unsure, please contact Architectural Design Support at 833-958-1273.

A. **New Product:**

1. This is a new product that has been developed by CornellCookson. Alternate manufacturers may be unable to meet the specification.

B. **Custom Layout:**

1. Product has been reconfigured for a custom layout, refer to drawings by CornellCookson.

C. **Customized Product:**

1. This product has custom modifications designed by CornellCookson. Contact Manufacturer for details.

**PART 2** PRODUCTS

2.1 MANUFACTURER

A. **Manufacturer:**

1. **Cornell:** 24 Elmwood Avenue, Mountain Top, PA 18707. Telephone: (800) 233-8366.

2. **Cookson**

3. **Clopay Building Products**

2.2 PRODUCT INFORMATION

A. **Model:** ESC15 – Exam Room Configured Counter Door

2.3 MATERIALS

A. **Curtain:**

\*\* **NOTE TO SPECIFIER \*\*** Select one of the following.

1. **Slat Configuration:**

a. **Galvanized Steel with Finish as Described Below:** No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, minimum 22 gauge ASTM A 653, Commercial Quality, galvanized steel with single angle flat bottom bar

a. **Stainless Steel:** No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, minimum 22 gauge AISI type 304 #4 finish stainless steel with single angle flat bottom bar

a. **Aluminum:** No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, galvanized steel with single angle flat bottom bar

2. **Finish:**

\*\* **NOTE TO SPECIFIER** \*\* Select one of the following.

a. **GalvaNex™ Coating System (Stock Colors):**

1) **GalvaNex™** - ASTM A 653 galvanized base coating treated with dual process rinsing agents in preparation for chemical bonding baked-on base coat and [gray] [tan] [white] [brown] baked-on polyester enamel finish coat

2) **GalvaNex™Ultra**- Ultra Powder Coat to be applied as a protective top coat over GalvaNex finish. Top coat is a polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117. Base coating of GalvaNex to be ASTM A 653 galvanized base coating treated with dual process rising agents in preparation for chemical bonding baked-on base coat and [gray] [tan] [white] [brown] baked-on polyester enamel finish coat.

a. **Powder Coat:**

1) Zirconium pre-treatment followed by baked-on polyester powder coat. minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better.

a) **SpectraShield** color as selected by Architect from manufacturer's color range, more than 180 colors

b) **SpectraShield Ultra** – Ultra Powder Coat to be applied as a protective top coat over SpectraShield finish. Top coat is a polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117. Base coating of SpectraShield color as selected by Architect from

c) Custom color as selected by Architect

d) AtmoShield textured environmental coating; color as selected by Architect, [Weathered iron] [Weathered brown] [Earth] [Weathered bronze] [Terra cotta] [Stucco] [Platinum] [Olde copper] [Rust] [Dark roast] [Weathered copper]

a. **Aluminum:** [Clear anodized] [Medium bronze anodized] [Dark bronze anodized] [Black anodized] [Powder coat – color selected by architect]

a. **Stainless Steel:** type 304 #4 finish

B. **Endlocks:**

Fabricate interlocking slat sections with high strength stamped steel endlocks riveted to ends of each slat

C. **Guides:**

\*\* **NOTE TO SPECIFIER** \*\* Select one of the following.

1. **Fabrication:**

a. **Steel:** minimum 12 gauge inner / 7 gauge outer formed shape mounted to 3” x 2” steel tubes

a. **Stainless Steel:** 12 gauge inner / 7 gauge outer formed shape mounted to 3” x 2” steel tubes

2. **Finish:**

\*\* **NOTE TO SPECIFIER** \*\* Select one of the following.

a. Powder Coat:

1) Zirconium pre-treatment followed by baked-on polyester powder coat. Minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better.

a) SpectraShield color as selected by Architect from manufacturer's color range, more than 180 colors

b) Custom color as selected by Architect

c) AtmoShield textured environmental coating; color as selected by Architect, [Weathered iron] [Weathered brown] [Earth] [Weathered bronze] [Terra cotta] [Stucco] [Platinum] [Olde copper] [Rust] [Dark roast] [Weathered copper]

a. **Stainless Steel:** type 304 #4 finish

D. **Shaft Assembly:**

\*\* **NOTE TO SPECIFIER** \*\* Select one of the following.

1. **Counterbalance Shaft Assembly:**

a. **Barrel:** Steel pipe capable of supporting curtain load with maximum deflection of 0.03 inches per foot (2.5 mm per meter) of width

b. **Spring Balance:** Oil-tempered, heat-treated steel helical torsion spring assembly designed for proper balance of door to ensure that maximum effort to operate will not exceed 25 lbs (110 N). Provide wheel for applying and adjusting spring torque

E. **Brackets:**

Fabricate from reinforced steel plate with bearings at rotating support points to support counterbalance shaft assembly and form end closures

1. **Finish:**

**\*\* NOTE TO SPECIFIER \*\*** Select one of the following.

a. **Powder Coat:**

1) Zirconium pre-treatment followed by baked-on polyester powder coat. minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better.

a) Stock color to match curtain [gray] [tan] [white] [brown]

b) SpectraShield color as selected by Architect from manufacturer's color range, more than 180 colors

c) Custom color as selected by Architect

d) **AtmoShield** textured environmental coating; color as selected by Architect, [Weathered iron] [Weathered brown] [Earth] [Weathered bronze] [Terra cotta] [Stucco] [Platinum] [Olde copper] [Rust] [Dark roast] [Weathered copper]a.

**a. Corrosion Inhibitive:** Zirconium treatment followed by a corrosion inhibitive baked-on zinc enriched gray polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness

a. **Hot-dip Galvanized:** ASTM A 123, Grade 85 zinc coating, hot-dip galvanized

F. **Hood:**

a. **No hood provided** when coil is above ceiling

2.4 OPERATION

A. **Motor Operation:**

1. **Motor – Standard Use – Model MG (Industrial Duty Gear Head) Operator:** The operator must not extend above or below the door coil when mounted front-of-coil. Rated for a maximum of 20 cycles per hour (not to be used for consecutive hours) cULus listed (to comply with UL requirements in The United States and Canada), Totally Enclosed Non Ventilated gear head operator(s) rated (1/3) (1/2) or (3/4) hp as recommended by door manufacture for size and type of door, \_\_\_\_Volts, \_\_\_\_Phase. Provide complete with electric motor and factory pre-wired motor control terminals, maintenance free solenoid actuated brake, and control station(s). Motor shall be high starting torque, industrial type, protected against overload with an auto-reset thermal sensing device. Primary speed reduction shall be heavy-duty, lubricated gears with mechanical braking to hold the door in any position. Operator shall be equipped with an emergency manual chain hoist assembly that safely cuts operator power when engaged. A disconnect chain shall not be required to engage or release the manual chain hoist. Operator drive and door driven sprockets shall be provided with #50 roller chain. Operator shall be capable of driving the door at a speed up to 9” per second or as recommended for door size. Fully adjustable, driven linear screw type cam limit switch mechanism shall synchronize the operator with the door. The electrical contractor shall mount the control station(s) and supply the appropriate disconnect switch, all conduit and wiring per the overhead door wiring instructions.

B. **Control Station:** For use with motor operated units only

1. **Flush mounted:** "Open/Close " push buttons; NEMA 1; stainless steel face plate

C. **Control Operation:**

1. **Constant pressure to close:**

a. **No sensing device required**

D. Alternate motor mount, fascia side of coil, be sure to order opposite hand motor.

2.5 ACCESSORIES

Locking is not recommended for exam room configured counter doors.

A. **Locking:**

1. **None**

B. **Graphic Door Image:**

1. **Decal Graphics:** [Flat face surface of door curtain slats] [guides] [bottom bar] to include a factory applied [4] [2] -color process, 2 mil thick vinyl graphic image, 3M® or equal. Graphic image to be selected and electronically supplied by customer. (No width limit; Max. height: 10 ft.)

**PART 3** EXECUTION

3.1 EXAMINATION

A. Examine substrates upon which work will be installed and verify conditions are in accordance with approved shop drawings

B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates

C. Commencement of work by installer is acceptance of substrate

3.2 INSTALLATION

A. Install door and operating equipment with necessary hardware, anchors, inserts, hangers and supports

B. Follow manufacturer's installation instructions

3.3 ADJUSTING

A. Following completion of installation, including related work by others, lubricate, test, and adjust doors for ease of operation, free from warp, twist, or distortion

3.4 CLEANING

A. Clean surfaces soiled by work as recommended by manufacturer

B. Remove surplus materials and debris from the site

3.5 DEMONSTRATION

A. Demonstrate proper operation to Owner's Representative

B. Instruct Owner's Representative in maintenance procedures

**END OF SECTION**