### The Genuine. The Original.



### SECTION 08330

### ROLLING SERVICE DOORS

#### Display hidden notes to specifier by using "Tools"/"Options"/"View"/"Hidden Text".

\*\* NOTE TO SPECIFIER \*\* Overhead Door Corporation; rolling service door products.

This section is based on the products of Overhead Door Corporation, which is located at: 2501 S. State Hwy. 121 Suite 200 Lewisville, TX 75067 Toll Free: (800) 275-3290 Phone: (469) 549-7100 Fax: (972) -906-1499 Web Site: www.overheaddoor.com E-mail: info@overheaddoor.com

Overhead Door Corporation pioneered the upward-acting door industry, inventing the first upward-acting door in 1921 and the first electric door opener in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door Corporation products more often than any other brand.

The section includes Overhead Door Corporation's rolling service door product line ensures that your project specifications will be met with ease and style. Ideal for situations where sideroom and headroom are at a premium, our upward-coiling service doors fit openings up to 1500 SF and are available with the industry's widest array of slat profiles, curtain materials and colors, offering a virtually endless array of options to satisfy both aesthetic considerations and working requirements.

This specification also includes RapidSlat<sup>®</sup> advanced performance rolling service doors that are an extension of the rolling steel product line and provides customers with speed and product longevity. It includes the same general construction as Overhead Door's rolling steel line with enhancements to provide increased speed, security and durability. These innovations include: Maximum performance and functionality with minimum maintenance requirements; Five-year limited warranty on door system.

#### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

- A. Rolling service doors.
- B. Insulated rolling service doors.

- C. Rolling sheet doors.
- D. Springless rolling service doors
- E. Advanced performance rolling service doors.
- F. Rolling security shutters.

#### 1.2 RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

- A. Section 05500 Metal Fabrications: Support framing and framed opening.
- B. Section 06200 Finish Carpentry: Wood jamb and head trim.
- C. Section 08333 Security Grilles.
- D. Section 08710 Door Hardware: Product Requirements for cylinder core and keys.
- E. Section 09900 Painting: Field applied finish.
- F. Section 16130 Raceway and Boxes: Conduit from electric circuit to door operator and from door operator to control station.
- G. Section 16150 Wiring Connections: Power to disconnect.

#### 1.3 REFERENCES

### \*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

- A. ANSI/DASMA 108 American National Standards Institute Standard Method For Testing Sectional Garage Doors And Rolling Doors: Determination Of Structural Performance Under Uniform Static Air Pressure Difference.
- B. NFRC 102 Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
- C. ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Element.
- D. ASTM E 330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- E. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- F. ASTM A 666 Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- G. ASTM A 924 Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

- H. ASTM B 221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- I. NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum).
- J. NEMA MG 1 Motors and Generators.

### 1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
- B. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Details of construction and fabrication.
  - 4. Installation instructions.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.

#### \*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.
- B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  - 3. Refinish mock-up area as required to produce acceptable work.
- 1.7 DELIVERY, STORAGE, AND HANDLING
  - A. Store products in manufacturer's unopened packaging until ready for installation.
  - B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
  - C. Store materials in a dry, warm, ventilated weathertight location.
- 1.8 PROJECT CONDITIONS
  - A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### 1.9 COORDINATION

A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

#### 1.10 WARRANTY

### \*\* NOTE TO SPECIFIER \*\* Include the following warranty paragraph for Models 610S, 620S or 625S rolling service doors. Delete if not applicable.

A. Warranty: Manufacturer's limited door and operator system, to be free from defects in materials and workmanship for 3 years or 500,000 cycles, whichever occurs first.

# \*\* NOTE TO SPECIFIER \*\* Include the following warranty paragraph for Models 600, 610, 620, 625 or 627 rolling service doors and Models RSX®, RMX®, or RHX® commercial door operators provided together as a System. Delete if not applicable.

B. Warranty: Manufacturer's limited door and operator system, except the counterbalance spring and finish, to be free from defects in materials and workmanship for 3 years or 20,000 cycles, whichever occurs first.

# \*\* NOTE TO SPECIFIER \*\* Include the following warranty paragraph for RapidSlat Models 611, 621 or 626 rolling service doors not provided as a system with operators. Delete if not applicable.

C. Warranty: Manufacturer's limited door warranty for 5 years on door system materials and workmanship.

# \*\* NOTE TO SPECIFIER \*\* Include the following warranty paragraph for Model 600, 610, 620, 625 or 627 rolling service doors and Model 653 shutters not provided as a system with operators. Delete if not applicable.

D. Warranty: Manufacturer's limited door system warranty for 2 years for all parts and components.

\*\* NOTE TO SPECIFIER \*\* Include the following Optional PowderGuard Finish warranty paragraph if included for the Door(s) specified. Delete if not applicable.

#### E. PowderGuard Finish

\*\* NOTE TO SPECIFIER \*\* Include the one of the following PowderGuard Finish warranty paragraphs for the finish specified. Delete if not applicable.

- 1. PowderGuard Premium Applied to curtain, guides, bottom bar, headplates: Manufacturer's limited Premium Finish warranty for 2 years.
- 2. PowderGuard Zinc Base Coat applied to guides, bottom bar, headplates plus PowderGuard Premium applied to curtain and top coat for guides, bottom bar, headplates: Manufacturer's limited Zinc Finish warranty for 4 years.
- 3. PowderGuard Textured: Applied to curtain, guides, bottom bar, headplates: Manufacturer's limited Textured Finish warranty for 3 years.
- 4. PowderGuard Zinc Base Coat applied to guides, bottom bar, headplates plus PowderGuard Textured applied to curtain and top coat for guides, bottom bar, headplates: Manufacturer's limited Zinc Finish warranty for 4 years.
- 5. PowderGuard Max: Applied to curtain, guides, bottom bar, headplates: Manufacturer's limited Max Finish warranty for 5 years.

#### PART 2 PRODUCTS

- 2.1 MANUFACTURERS
  - A. Acceptable Manufacturer: Overhead Door Corporation, 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: <u>www.overheaddoor.com</u>. Email: <u>info@overheaddoor.com</u>.

## \*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 ROLLING SERVICE DOORS

\*\* NOTE TO SPECIFIER \*\* Overhead Door Corporation Model 600 Light Commercial Rolling Service Doors are available up to a standard maximum width of 16 feet and a standard maximum height of 16 feet. Overhead Door Corporation Model 610 and 620 Industrial and Heavy Industrial Rolling Service Doors are available up to a standard maximum width of 40 feet and a standard maximum height of 30 feet. Edit as required to suit project requirements.

### \*\* NOTE TO SPECIFIER \*\* Model 600 doors are suitable for light commercial, mini warehouse and economy projects.

- A. Light Commercial Doors: Overhead Door Corporation, Model 600 Coil-Away Rolling Service Doors.
  - Curtain: Interlocking roll-formed galvanized steel slats, flat crown profile type CAW, 26 gauge for widths up to 12 feet 4 inches (3.75 m), 24 gauge for widths up to 16 feet (4.88 m). End of each slat shall be locked from lateral movement by a staking lock system. (Galvanized alternate malleable end locks.)
  - 2. Finish:

a. Curtain slats and hood shall be galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard. 1)

- Polyester Top Coat.
  - White polvester. (a)
  - (b) Brown polyester.
- Powder Coat: 2)

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available.

- (a) PowderGuard Premium: Powder coat color as selected by the Architect.
- Non-galvanized exposed ferrous surfaces shall receive one coat 3) of rust-inhibitive primer.
- 3. Weatherseals: Vinyl bottom seal.
- Bottom Bar: Extruded aluminum. 4.
- Guides: Roll-formed galvanized steel shapes attached to continuous 5. galvanized steel wall angle.
  - Finish: PowderGuard Premium powder coat, color as selected by а Architect.
- 6. Brackets: Galvanized steel to support counterbalance and curtain.
  - Finish: PowderGuard Premium powder coat, color as selected by a. Architect.
- 7. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel and supporting the curtain with deflection limited to 0.03 inch per foot of span. Spring tension shall be adjustable.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 8. Hood: Not Required.
- 9. Hood: 24 gauge galvanized steel with intermediate supports as required. \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.
  - 10. Manual Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following manual operation paragraphs and delete the ones not required.

- a. Manual push up for doors up to 100 SF.
- Chain hoist for doors over 100 SF. b.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

- Electric Motor Operation: Provide UL listed electric operator, size as 11. recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
  - Sensing Edge Protection: a.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) N/A.
- Electric sensing edge. 2)
- **Operator Controls:** b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Key operation with open, close, and stop controls.

3) Push-button and key operated control stations with open, close, and stop buttons.

\*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- 5) Controls for exterior location.
- 6) Controls for both interior and exterior location.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 7) Controls surface mounted.
- 8) Controls flush mounted.
- Special Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Vehicle detector operation.
- 2) Radio control operation.
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.
- 6) Commercial light package.
- 7) Explosion and dust ignition proof control wiring.
- d. Motor Voltage: 115/230 single phase, 60 Hz.
- 12. Wind load Design:

### \*\* NOTE TO SPECIFIER \*\* Select the following paragraph if required. Contact the manufacturer for current data on FBC Certification and insert below.

- a. FBC certification FL#\_\_\_\_
- 13. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- 14. Locking:

В.

c.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Two interior bottom bar slide bolts for manually operated doors.
- b. Exterior slide lock for manually operated mini-warehouse doors.
- c. Chain keeper locks for chain hoist operation.
- d. Interior slide bolt lock for electric operation.
- e. Cylinder lock for electric operation.
- 15. Wall Mounting Condition: Face-of-wall.

### \*\* NOTE TO SPECIFIER \*\* Model 610 doors are suitable for heavy duty industrial and other similar projects.

- Industrial Doors: Overhead Door Corporation, Model 610 Rolling Service Doors.
  - 1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.

\*\* NOTE TO SPECIFIER \*\* Select one of the following profile paragraphs as required and delete the ones not required.

a. Curved profile type C-187 for doors up to 15 feet 4 inches (4.67 m) wide, fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 22 gauge galvanized steel is standard.

- 1) 24 gauge galvanized steel.
- 2) 22 gauge galvanized steel.
- 3) 20 gauge galvanized steel.
- 4) 18 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) 20 gauge stainless steel.
- 7) .040 inch (1 mm) aluminum.

b. Curved profile type C-275 for doors up to and between 15 feet 4 inches (4.67 m) and 18 feet 4 inches (5.59 m) wide, fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 22 gauge galvanized steel is standard.

- 1) 22 gauge galvanized steel.
- 2) 20 gauge galvanized steel.
- 3) 18 gauge galvanized steel.
- 4) 16 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) 20 gauge stainless steel.
- 7) .050 inch (1.29 mm) aluminum.
- c. Curved profile type C-275 for doors between 18 feet 4 inches (5.59 m) and 25 feet 4 inches (7.72 m) wide, fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 20 gauge galvanized steel is standard.

- 1) 20 gauge galvanized steel.
- 2) 18 gauge galvanized steel.
- 3) 16 gauge galvanized steel.
- 4) 20 gauge stainless steel.
- 5) .064 inch (1.63 mm) aluminum.
- d. Curved profile type C-275 for doors between 25 feet 4 inches (7.72 m) and 40 feet (12.19 m) wide, fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 18 gauge galvanized steel is standard.

- 1) 18 gauge galvanized steel.
- 2) 16 gauge galvanized steel.
- 3) .064 inch (1.63 mm) aluminum. Maximum width is 27 feet.
- e. Flat profile type F-265 for doors up to 18 feet 4 inches (5.59 m) wide, fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 22 gauge galvanized steel is standard.

- 1) 22 gauge galvanized steel.
- 2) 20 gauge galvanized steel.
- 3) 18 gauge galvanized steel.
- 4) 16 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) 20 gauge stainless steel.
- 7) .040 inch (1 mm) aluminum.
- f. Flat profile type F-265 for doors between 18 feet 4 inches (5.59 m) and 25 feet 4 inches (7.72 m) wide, fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 20 gauge galvanized steel is standard.

- 1) 20 gauge galvanized steel.
- 2) 18 gauge galvanized steel.
- 3) 16 gauge galvanized steel.
- 4) 20 gauge stainless steel.
- 5) .050 inch (1.29 mm) aluminum.
- g. Flat profile type F-265 for doors between 25 feet 4 inches (7.72 m) and 40 feet (12.19 m) wide, fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 18 gauge galvanized steel is standard.

- 1) 18 gauge galvanized steel.
- 2) 16 gauge galvanized steel.
- 3) .050 inch (1.29 mm) aluminum. Maximum width is 27 feet.

\*\* NOTE TO SPECIFIER \*\* Fenestrated and ventilated doors are optional. Ventilated slats offer 25% open area. Select one of the following paragraphs as required and delete the one

### not required. Delete entirely if not required. Requires curved profile C-275 or flat profile C-265 slat minimum 18 gauge.

- h. For fenestrated service doors, provide slats with 3 inches by 5/8 inch (76 mm by 16 mm) uniformly spaced openings.
  - For ventilated service doors, provide slats with 1/16 inch (16 mm)
- diameter perforations 3/32 inch (2.4 mm) on center staggered rows. Slats and Hood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs for the slat and hood material required and delete the ones not required.

a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

## \*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard.

- 1) Polyester Top Coat.
  - (a) Gray polyester.
  - (b) Tan polyester.
  - (c) White polyester.
  - (d) Brown polyester.
- 2) Powder Coat:

i.

C.

2.

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection.

- (a) PowderGuard Premium powder coat, color as selected by the Architect.
- (b) PowderGuard Textured powder coat, color as selected by the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.
- 3) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
- b. Stainless Steel: Slats and hood shall be stainless steel finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: 2B mill finish.
- 2) Finish: No. 4 satin finish.
- Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the those not required.

- 1) Finish: Mill finish.
- 2) Finish: Clear anodized finish.
- 3) Finish: Bronze anodized finish.
- 4) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat, color as selected by the Architect.
- (b) PowderGuard Textured powder coat, color as selected by the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.

3. Weatherseals:

a. Vinyl bottom seal.

\*\* NOTE TO SPECIFIER \*\* Guide weatherseals are optional delete if not required.

- b. Guide weatherseal.
- 4. Bottom Bar:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs and delete the ones not required. Galvanized steel angles are optional for all doors.

- a. Extruded aluminum for doors up to 15 feet 4 inches (4.67 m) wide.
- b. Two primed steel angles for doors over 15 feet 4 inches (4.67 m) wide.
- c. Two galvanized steel angles.
- 5. Guides: Three structural steel angles.
- 6. Brackets:

7.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- c. PowderGuard Zinc base coat, gray.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.f. PowderGuard Max powder coat color as selected by the Architect.
- Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
- 9. Hood:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs and delete the ones not required.

- a. 24 gauge galvanized steel with intermediate supports as required.
- b. Stainless steel, 24 gauge hood with intermediate supports as required.
- c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

### 10. Manual Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following manual operation paragraphs and delete the ones not required.

- a. Manual push up for doors up to 96 SF.
- b. Chain hoist for doors up to 96 SF.
- c. Chain hoist for doors over 96 SF.
- d. Crank operation.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

- 11. Electric Motor Operation: Provide UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
  - a. Sensing Edge Protection:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Pneumatic sensing edge.
- 2) Electric sensing edge.
- b. Operator Controls:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Key operation with open, close, and stop controls.
- 3) Push-button and key operated control stations with open, close, and stop buttons.

\*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- 5) Controls for exterior location.
- 6) Controls for both interior and exterior location.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

7) Controls surface mounted.

- 8) Controls flush mounted.
- c. Special Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Vehicle detector operation.
- 2) Radio control operation.
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.
- 6) Commercial light package.
- 7) Explosion and dust ignition proof control wiring.
- Motor Voltage: 115/230 single phase, 60 Hz.
- 12. Wind Load Design:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind loading is 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification or TDI approval and insert below.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL#\_\_\_\_\_.
- d. TDI approval # \_
- 13. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- 14. Locking:

d.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Two interior bottom bar slide bolts for manually operated doors.
- b. Chain keeper locks for chain hoist operation.
- c. Interior slide bolt lock for electric operation with interlock switch.
- d. Cylinder lock.
- 15. Wall Mounting Condition:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Face-of-wall mounting.
- b. Between jambs mounting.

\*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select open or covered openings. Delete if not required.

16. Vision Lites: Provide with 3 inches by 5/8 inch (76 mm by 16 mm) uniformly spaced openings.

- a. Provide open with no cover.
- b. Provide with Plexiglas covers over openings.

\*\* NOTE TO SPECIFIER \*\* Model 620 doors are suitable for heavy duty industrial and other similar projects requiring weatherstripping.

- C. Heavy Duty Industrial Doors: Overhead Door Corporation, Model 620 Stormtite Rolling Service Doors.
  - 1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.

\*\* NOTE TO SPECIFIER \*\* Select one of the following profile paragraphs as required and delete the ones not required.

a. Flat profile type F-265 for doors up to 18 feet 4 inches (5.59 m) wide, fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 22 gauge galvanized steel is standard.

- 1) 22 gauge galvanized steel.
- 2) 20 gauge galvanized steel.
- 3) 18 gauge galvanized steel.
- 4) 16 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) 20 gauge stainless steel.
- 7) .040 inch (1 mm) aluminum.
- b. Flat profile type F-265 for doors between 18 feet 4 inches (5.59 m) and 25 feet 4 inches (7.72 m) wide, fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 20 gauge galvanized steel is standard.

- 1) 20 gauge galvanized steel.
- 2) 18 gauge galvanized steel.
- 3) 16 gauge galvanized steel.
- 4) 20 gauge stainless steel.
- 5) .050 inch (1.29 mm) aluminum.
- c. Flat profile type F-265 for doors between 25 feet 4 inches (7.72 m) and 40 feet (12.19 m) wide, fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 18 gauge galvanized steel is standard.

- 1) 18 gauge galvanized steel.
- 2) 16 gauge galvanized steel.
- 3) .050 inch (1.29 mm) aluminum. (Maximum width of 27 feet (8.23 m).
- 2. Slats and Hood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs for the slat and hood material and finish required and delete the ones not required.

a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils

thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard.

- 1) Polyester Top Coat.
  - (a) Gray polyester.
  - (b) Tan polyester.
  - (c) White polyester.
  - (d) Brown polyester.
- 2) Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in

### 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Textured powder coat color as selected by the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.
- 3) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
- b. Stainless Steel: Slats and hood shall be stainless steel finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: 2B mill finish.
- 2) Finish: No. 4 satin finish.

c. Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- 1) Finish: Mill finish.
- 2) Finish: Clear anodized finish.
- 3) Finish: Bronze anodized finish.
- 4) Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Textured powder coat color as selected by the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.
- 3. Weatherseals:

a. Vinyl bottom seal, exterior guide and internal hood seals.

\*\* NOTE TO SPECIFIER \*\* Guide and lintel weatherseals are optional delete if not required.

- b. Interior guide weatherseal.
- c. Lintel weatherseal.
- 4. Bottom Bar:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs and delete the ones not required. Galvanized steel angles are optional for all doors.

- a. Extruded aluminum for doors up to 15 feet 4 inches (4.67 m) wide.
- b. Two primed steel angles for doors over 15 feet 4 inches (4.67 m) wide.
- c. Two galvanized steel angles.
- 5. Guides: Three structural steel angles.
- 6. Brackets:

7.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides, Headplate and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available.

#### PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- PowderGuard Zinc base coat, grav. c.
- PowderGuard Zinc base coat with PowderGuard Premium powder coat d. color as selected by the Architect.
- PowderGuard Textured powder coat color as selected by the Architect. e.
- PowderGuard Max powder coat color as selected by the Architect. f.
- 8. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
- Hood: Provide with internal hood baffle weatherseal. 9

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs and delete the ones not required.

- 24 gauge galvanized steel with intermediate supports as required. a.
- b. Stainless steel. 24 gauge hood with intermediate supports as required.
- c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

#### 10. Manual Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following manual operation paragraphs and delete the ones not required.

- Manual push up for doors up to 96 SF. a.
- Chain hoist for doors up to 96 SF. b.
- Chain hoist for doors over 96 SF. C.
- Crank operation. d.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph if electric motor operation is required and delete if not required.

> Electric Motor Operation: Provide UL listed electric operator, size as 11. recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. a.

Sensing Edge Protection:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Pneumatic sensing edge.
- 2) Electric sensing edge.
- **Operator Controls:** b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- Push-button operated control stations with open, close, and stop 1) buttons.
- 2) Key operation with open, close, and stop controls.
- Push-button and key operated control stations with open, close, 3) and stop buttons.

#### \*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- 5) Controls for exterior location.
- Controls for both interior and exterior location. 6)

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 7) Controls surface mounted.
- Controls flush mounted. 8)
- Special Operation: c.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Vehicle detector operation.
- 2) Radio control operation.
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.
- 6) Commercial light package.
- 7) Explosion and dust ignition proof control wiring.
- Motor Voltage: 115/230 single phase, 60 Hz.
- 12. Wind Load Design:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind load is 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification or TDI approval and insert below.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL# \_\_\_\_.
- d. TDI Approval # .
- 13. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- 14. Locking:

d.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Two interior bottom bar slide bolts for manually operated doors.
- b. Interior bottom bar slide bolt with chain hoist operation.
- c. Chain keeper locks for chain hoist operation.
- d. Interior slide bolt lock for electric operation with interlock switch.
- e. Cylinder lock for electric operation with interlock switch.
- 15. Wall Mounting Condition:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Face-of-wall mounting.
- b. Between jambs mounting.

### \*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select the size and open or covered openings. Delete if not required.

- 16. Vision Lites: Provide with uniformly spaced openings.
  - a. Size: 3 inch by 5/8 inch (76 mm by 16 mm).
  - b. Size: 10 inch by 1 inch (254 mm by 25.4 mm)
  - c. Provide open with no cover.
  - d. Provide with Plexiglas covers over openings.
- 2.3 INSULATED ROLLING SERVICE DOORS
  - A. Stormtite Insulated Rolling Service Doors: Overhead Door Corporation Model 625.
    - 1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
      - a. Flat profile type F-265i for doors up to 40 feet (12.19 m) wide.
      - b. Front slat fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 24 gauge galvanized steel is standard.

- 1) 24 gauge galvanized steel.
- 2) 22 gauge galvanized steel.
- 3) 20 gauge galvanized steel.
- 4) 18 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) 20 gauge stainless steel.

- Aluminum .040 inch (1 mm). 7)
- Back slat fabricated of: c.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 24 gauge galvanized steel is standard.

- 24 gauge galvanized steel. 1)
- 2) 22 gauge galvanized steel.
- 3) 24 gauge stainless steel.
- 4) Aluminum .024 inch (.06 mm).
- d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.
  - 1) R-Value: 7.7, U-Value: 0.13.
  - 2) Sound Rating: STC-21.
- 2. Performance:
  - Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with a. HZ noise generator) as per ASTM E 90.
  - b. Installed System Sound Rating: STC-21 as per ASTM E 90.
  - c. U-factor: 0.91 NFRC test report, maximum U-factor of no higher than 1.00.
  - d. Air Infiltration: Meets ASHRAE 90.1 & IECC 2012/2015 C402.4.3 Air leakage <1.00 cfm/ft2.
- 3. Slats and Hood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs for the slat and hood material required and delete the ones not required.

Galvanized Steel: Slats and hood galvanized in accordance with ASTM a. A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard. 1)

- Polyester Top Coat.
  - Gray polyester. (a)
  - Tan polyester. (b)
  - (c) White polyester.
  - (d) Brown polyester.
- Powder Coat: 2)

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- PowderGuard Premium powder coat color as selected by (a) the Architect.
- PowderGuard Textured powder coat color as selected by (b) the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.
- Non-galvanized exposed ferrous surfaces shall receive one coat 3) of rust-inhibitive primer.
- Stainless Steel: Slats and hood shall be stainless steel finished as b. follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

> 1) Finish: 2B mill finish.

C.

- 2) Finish: No. 4 satin finish.
- Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- 1) Finish: Mill finish.
- 2) Finish: Clear anodized finish.
- 3) Finish: Bronze anodized finish.
- 4) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Textured powder coat color as selected by the Architect.
- (c) PowderGuard Max powder coat, color as selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Select Weatherseals or Air Infiltration Package from the following two paragraphs and delete the one not required. Note that the Air infiltration Package is only available on face mounted doors.
 4. Weatherseals:

Weatherseals:

Vinyl bottom seal, exterior guide and internal hood seals.

\*\* NOTE TO SPECIFIER \*\* Guide and weatherseals and air infiltration package are optional delete if not required.

- b. Interior guide weatherseal.
- c. Lintel weatherseal.
- d. Air Infiltration Package, IECC 2012/2015 listed; product to meet C402.4.3 2012 Air leakage <1.00 cfm/ft2.
  - Air infiltration perimeter seal package includes: guide cover, guide cap, dual brush exterior guide seal, 4 inch finned lintel brush seal and vinyl bottom seal.
- 5. Bottom Bar:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Two prime painted steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
- b. Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
- c. Two stainless steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
- d. Extruded aluminum angle minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
- 6. Guides: Three structural steel angles.
- 7. Brackets:

8.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- c. Stainless steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides, Headplate and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- c. PowderGuard Zinc base coat, gray.

- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- f. Finish: PowderGuard Max powder coat color as selected by the Architect.
- Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
   Hood: Provide with internal hood baffle weatherseal.

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs and delete the ones not required.

- a. 24 gauge galvanized steel with intermediate supports as required.
- b. Stainless steel, 24 gauge hood with intermediate supports as required.
- c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

#### 11. Manual Operation:

b.

C.

\*\* NOTE TO SPECIFIER \*\* Select one of the following manual operation paragraphs and delete the ones not required.

- a. Chain hoist.
- b. Crank operation.

\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

- 12. Electric Motor Operation: Provide UL listed electric operator, size as
  - recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
    - a. Sensing Edge Protection:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Pneumatic sensing edge.
- 2) Electric sensing edge.
- Óperator Controls:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Key operation with open, close, and stop controls.
- 3) Push-button and key operated control stations with open, close, and stop buttons.

\*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- 5) Controls for exterior location.
- 6) Controls for both interior and exterior location.

### \*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one

not required.

- 7) Controls surface mounted.
- 8) Controls flush mounted.
- Special Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Vehicle detector operation.
- 2) Radio control operation.
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.

- 6) Commercial light package.
- 7) Explosion and dust ignition proof control wiring.
- Motor Voltage: 115/230 single phase, 60 Hz.
- 13. Wind Load Design:

d.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind load is 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification and TDI approval and insert below.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL# \_\_\_\_.
- d. TDI Approval # \_
- 14. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- 15. Locking:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Chain keeper locks for chain hoist operation.
- b. Interior slide bolt lock for electric operation with interlock switch.
- c. Cylinder lock for electric operation with interlock switch.
- 16. Wall Mounting Condition:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Face-of-wall mounting.
- b. Between jambs mounting.

\*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select size and open or covered openings. Delete if not required.

- 17. Insulated Vision Lites: Provide with uniformly spaced openings.
  - a. Size: 3 inch by 5/8 inch (76 mm by 16 mm)
  - b. Size: 10 inch by 1 inch (254 mm by 25.4 mm)
  - c. Provide with dual wall polycarbonate lites.
- B. Stormtite Advanced Performance Insulated Rolling Service Doors: Overhead Door Corporation Stormtite AP Model 627.
  - 1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
    - a. Flat profile type FIT-265 for doors up to 40 feet (12.19 m) wide.
    - b. Front slat fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 24 gauge galvanized steel is standard.

- 1) 24 gauge galvanized steel.
- 2) 22 gauge galvanized steel.
- 3) 20 gauge galvanized steel.
- 4) 18 gauge galvanized steel.
- 5) 22 gauge stainless steel.
- 6) Aluminum .040 inch (1 mm).
- c. Back slat fabricated of:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. 24 gauge galvanized steel is standard.

- 1) 24 gauge galvanized steel.
- 2) 24 gauge stainless steel.
- 3) Aluminum .024 inch (.06 mm).
- d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.
  - 1) R-Value: 10.9, U-Value: 0.09.
- 2. Performance:

- Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with a. HZ noise generator) as per ASTM E 90.
- Installed System Sound Rating: STC-21 as per ASTM E 90. b.
- U-factor: 0.84 NFRC test report, maximum U-factor of no higher than c. 1.00.
- d. Air Infiltration: Meets ASHRAE 90.1 and IECC 2012/2015 C402.4.3 Air leakage <1.00 cfm/ft2.
- 3. Slats and Hood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following three paragraphs for the slat and hood material required and delete the ones not required.

> Galvanized Steel: Slats and hood galvanized in accordance with ASTM a. A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard. 1)

- Polyester Top Coat.
  - (a) Gray polyester.
  - (b) Tan polyester.
  - (c) White polyester.
  - (d) Brown polyester.
- 2) Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Textured powder coat color as selected by the Architect.
- PowderGuard Max powder coat, color as selected by (c) Architect.
- Non-galvanized exposed ferrous surfaces shall receive one coat 3) of rust-inhibitive primer.
- Stainless Steel: Slats and hood shall be stainless steel finished as b. follows
  - Finish: No. 4 satin finish. 1)
- C. Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: Mill finish.
- 2) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Textured powder coat color as selected by the Architect.
- PowderGuard Max powder coat, color as selected by (c) Architect.
- 4. Weatherseals:
  - a. Vinyl bottom seal and internal hood seals.
  - b. Interior and exterior EPDM triple-seal finned guide weatherseal.
  - Lintel weatherseal. C.

### \*\* NOTE TO SPECIFIER \*\* Air infiltration package is optional delete if not required.

- Air Infiltration Package: IECC 2012/2015 listed: product to meet d. C402.4.3 2012 Air leakage <1.00 cfm/ft2.
  - Air infiltration perimeter seal package includes: guide cover, 1) quide cap. PVC weatherseal on exterior of quide. EPDM triple finned weatherseal on interior of guide, lintel weatherseal and vinyl bottom seal.
- 5. Bottom Bar:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- Two powder coated black steel angles minimum thickness 1/8 inch (3 a. mm) bolted back to back to reinforce curtain in the guides.
- Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted b. back to back to reinforce curtain in the guides.
- Two stainless steel angles minimum thickness 1/8 inch (3 mm) bolted c. back to back to reinforce curtain in the guides.
- d. Two aluminum angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
- 6. Guides: Three structural steel angles.

Brackets: 7.

8.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- Hot rolled powder coated black steel to support counterbalance, curtain a. and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Stainless steel to support counterbalance, curtain and hood. C.
- Finish; Guides, Headplate and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- PowderGuard Zinc base coat, grav, c.
- PowderGuard Zinc base coat with PowderGuard Premium powder coat d. color as selected by the Architect.
- PowderGuard Textured powder coat color as selected by the Architect. e. PowderGuard Max powder coat color as selected by the Architect... f.
- Counterbalance: Helical torsion spring type housed in a steel tube or pipe
- 9. barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
- Hood: Provide with internal hood baffle weatherseal. 10.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- 24 gauge galvanized steel with intermediate supports as required. a.
- b. Stainless steel. 24 gauge hood with intermediate supports as required.
- C. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

Manual Operation: 11.

\*\* NOTE TO SPECIFIER \*\* Select one of the following manual operation paragraphs and delete the ones not required.

- Chain hoist. a.
- Crank operation. b.

* NOTE TO SPECIFIER ** Include the following paragraph is electric motor operation is required and delete if not required.		
12. Electric Motor Operation: Provide UL listed electric operator, size as		
recommended by manufacturer to move door in either direction at not less		
		ot nor more than 1 foot per second.
		ing Edge Protection:
	<u> </u>	elect one of the following two paragraphs and delete the one
not required.	1)	Draumatic consing adda
	2)	Pneumatic sensing edge. Electric sensing edge.
b.	,	ator Controls:
		elect one of the following operation paragraphs and delete the
one not required.		need one of the following operation paragraphs and delete the
ono not roquirour	1)	Push-button operated control stations with open, close, and stop
	• )	buttons.
	2)	Key operation with open, close, and stop controls.
	3)	Push-button and key operated control stations with open, close,
		and stop buttons.
** NOTE TO SPECIFIER ** Select one of the following location paragraphs and delete the		
one not required.		
	4)	Controls for interior location.
	5)	Controls for exterior location.
	6)	Controls for both interior and exterior location.
** NOTE TO SPECIFIER ** Select one of the following two paragraphs and delete the one		
not required.		
	7) 2)	Controls surface mounted.
	8) Spaa	Controls flush mounted.
		ial Operation:
** NOTE TO SPECIFIER ** Select one of the following operation paragraphs and delete the one not required.		
one not required.	1)	Vehicle detector operation.
	2)	Radio control operation.
	3)	Card reader control.
	4)	Photocell operation.
	5)	Door timer operation.
	6)	Commercial light package.
	7)	Explosion and dust ignition proof control wiring.
d.		r Voltage: 115/230 single phase, 60 Hz.
13. Wind Load Design:		
** NOTE TO SPECIFIER ** Select one of the following paragraphs and delete the one not		
required. Standard wind load is 20 PSF. Contact the manufacturer for current data on FBC		
Certification or TDI approval and insert below.		
a.	Stand	dard wind load shall be 20 PSF.

- b. FBC certification FL# \_\_\_\_.
- c. TDI approval # \_\_\_\_\_.
- 14. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- 15. Locking:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required.

- a. Chain keeper locks for chain hoist operation.
- b. Interior slide bolt lock for electric operation with interlock switch.
- c. Cylinder lock for electric operation with interlock switch.
- 16. Wall Mounting Condition:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Face-of-wall mounting.
- b. Between jambs mounting.

\*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select open or covered openings. Delete if not required.

- Insulated Vision Lites: 10 inches by 1 inch (254 mm by 25.4 mm) uniformly 17. spaced openings.
  - Provide with dual-wall polycarbonate. a.

\*\* NOTE TO SPECIFIER \*\* Overhead Door Corporation Model 790CW Commercial Wind Load Doors are available up to a standard maximum width of 20 feet and a standard maximum height of 16 feet. Overhead Door Corporation Model 780CW Commercial Doors are available up to a standard maximum width of 16 feet and a standard maximum height of 16 feet. Overhead Door Corporation Model 770SS Self-Storage Doors are available up to a standard maximum width of 10 feet and a standard maximum height of 10 feet. Select door type required and edit as required to suit project requirements. Delete doors not required.

#### 2.4 **ROLLING SHEET DOORS**

- A. Commercial Wind Load Rolling Sheet Doors: Overhead Door Corporation Model 790.
  - 1. Curtain: Roll formed, 26 gauge galvanized steel, per ASTM A 653, SQ Grade 80, Galvanized G-30. Sections interlocked and permanently seamed together to form a continuous curtain. Provided with a PVC edge strip stapled on the edge of curtain's exterior side to minimize steel-to-steel contact, enhance door operation, and minimize curtain nesting and scratching. Curtain shall have 9 gauge ductile iron wind locks on each edge of the curtain spaced according to door size and the application's wind load requirements.
  - 2. Sheet Finish:
    - Curtain sections shall receive rust-inhibitive, roll coating process, a. including 0.2 mils thick baked-on prime paint, and 0.6 mils thick bakedon polyester top coat. b.
      - Top Coat Color:

\*\* NOTE TO SPECIFIER \*\* Select one of the following color paragraphs and delete the ones not required. Reference manufacturers OHD Color Chart: R900-667.

- 1) White.
- 2) Glossy White.
- 3) Garnet Red.
- Roval Blue. 4)
- 5) Polar Blue.
- 6) Forest Green.
- 7) Desert Tan.
- 8) Teal.
- Dark Teal. 9)
- 10) Walnut Brown.
- 11) Bronze.
- 12) As selected by the Architect from the manufacturer's standard colors.
- Guides, angles, bottom bar stops, headplates and rings galvanized. c. Aluminum bottom bar clear anodized.
- Bottom Bar: Extruded aluminum reinforced with 1-1/2 inch by 2 inch (38 mm 3. by 51 mm) roll formed steel angle and provided with a flexible PVC bulb type astragal to ensure a consistent seal along the floor. Extrusion designed to interlock with door curtain.

- 4. Bottom Bar Stops: Bottom bar stops of "quick connect" design that allows the curtain to be inserted into the "universal" guide and lock into place with one fastener. Bottom bar stops shall be 12 gauge.
- 5. Guides: Guides roll-formed from 14-gauge grade 50 galvanized steel. Guides 3 inches (76 mm) wide with UHMW polypropylene rub strips on each edge of the guide. Through hole, universal design shall allow easy access from the front of the guide for fastener attachment to the door jamb material. Guides of universal design for use in concrete, wood, steel or masonry jambs Guides pre-punched to accept "quick connect" attachment of the bottom bar stops.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two headplate paragraphs and delete the one not required. Stamped headplate is standard heavy duty headplate is optional.

- 6. Headplates: Stamped 11 gauge steel, mounted directly to the wall to support the door shaft and ensure smooth door roll operation.
- 7. Heavy Duty Headplates: 0.187 inch (4.76 mm) thick welded steel, mounted directly to the wall to support the door shaft and ensure smooth door roll operation.
- 8. Counterbalance: Counterbalance assembly with "stepped" steel rings designed to ensure a tight and uniform curtain wrap. Rings include steel roller bearings for enhanced door operation and cycle life. 3-3/8 inch (86 mm) I.D. springs lubricated at factory to enhance long life and door operation. Shaft 1-5/16 inch (35 mm) diameter to minimize door deflection. Counterbalance assembly design to allow quick assembly of "non-handed" chain hoist on either side of door on the job site.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

9. Manual Operation:

b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- a. Manual push up.
- b. Chain hoist with 6:1 reduced drive.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

- 10. Electric Motor Operation: Provide UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
  - a. Sensing Edge Protection:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) N/A.
- 2) Electric sensing edge.
- **Operator Controls:**

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Key operation with open, close and stop controls.
- 3) Push-button and key operated control stations with open, close and stop buttons.

\*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- 5) Controls for exterior location.
- 6) Controls for both interior and exterior location.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 7) Controls surface mounted.
- 8) Controls flush mounted.
- Special Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- Vehicle detector operation. 1)
- Radio control operation. 2)
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.
- 6) Commercial light package.
- Explosion and dust ignition proof control wiring. 7)
- Motor Voltage: 115/230 single phase, 60 Hz.
- d. Locking: 11.

c.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. Dual exterior curtain lock is optional.

- a. Standard Interior bottom bar slide bolt on each end of the door's bottom bar assembly.
- b. Optional Dual Exterior curtain locks, Model 770 slide bolt lock.
- 12. Wind Loads: Design door assembly for Model 790 doors to withstand wind/suction load of 25/37.5 psf (1197/1796 Pa) without damage to door or assembly components in conformance with DASMA 108-2012 and as required by local codes.
- Operation: Design door assembly, including operator, to operate for not less 13. than 10,000 cycles.
- Β. Commercial Rolling Sheet Doors: Overhead Door Corporation Model 780.
  - Curtain: Roll formed, 26 gauge galvanized steel, per ASTM A 653 SQ Grade 1. 80, Galvanized G-30. Sections interlocked and permanently seamed together to form a continuous curtain. Provided with a PVC edge strip stapled on the edge of curtain's exterior side to minimize steel-to-steel contact, enhance door operation, and minimize curtain nesting and scratching.
  - 2. Sheet Finish:
    - Curtain sections shall receive rust-inhibitive, roll coating process, а including 0.2 mils thick baked-on prime paint, and 0.6 mils thick bakedon polvester top coat. b.
      - Top Coat Color:

\*\* NOTE TO SPECIFIER \*\* Select one of the following color paragraphs and delete the ones not required. Reference manufacturers OHD Color Chart: R900-667.

- 1) White.
- 2) Glossv White.
- 3) Garnet Red.
- 4) Royal Blue.
- Polar Blue. 5)
- 6) Forest Green.
- 7) Desert Tan.
- 8) Teal.
- 9) Dark Teal.
- Walnut Brown. 10)
- 11) Bronze.
- As selected by the Architect from the manufacturer's standard 12) colors.
- Guides, angles, bottom bar stops, headplates and rings galvanized. C. Aluminum bottom bar clear anodized.
- Bottom Bar: Extruded aluminum reinforced with 1-1/2 inch by 2 inch (38 mm 3. by 51 mm) roll formed steel angle and provided with a flexible PVC bulb type

astragal to ensure a consistent seal along the floor. Extrusion designed to interlock with door curtain.

- 4. Bottom Bar Stops: Bottom bar stops of "quick connect" design that allows the curtain to be inserted into the "universal" guide and lock into place with one fastener. Bottom bar stops shall be 12 gauge.
- Guides: Guides roll-formed from 18-gauge steel. Guides 3 inches (76 mm) 5. wide with UHMW polypropylene rub strips on each edge of the guide. Through hole, universal design shall allow easy access from the front of the guide for fastener attachment to the door jamb material. Guides of universal design for use in concrete, wood, steel or masonry jambs Guides prepunched to accept "quick connect" attachment of the bottom bar stops.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two headplate paragraphs and delete the one not required. Stamped headplates are standard. Heavy duty headplates are optional.

- 6. Headplates: Stamped 11 gauge steel, mounted directly to the wall to support the door shaft and ensure smooth door roll operation.
- 7. Heavy Duty Headplates: 0.187 inch (4.76 mm) thick welded steel, mounted directly to the wall to support the door shaft and ensure smooth door roll operation.
- 8. Counterbalance: Counterbalance assembly with "stepped" steel rings designed to ensure a tight and uniform curtain wrap. Rings include steel roller bearings for enhanced door operation and cycle life. 3-3/8 inch (86 mm) I.D. springs lubricated at factory to enhance long life and door operation. Shaft 1-5/16 inch (35 mm) diameter to minimize door deflection. Counterbalance assembly design to allow guick assembly of "non-handed" chain hoist on either side of door on the job site.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for manual operation or electric motor operation and delete the one not required.

Manual Operation: 9.

b.

b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

> a. Manual push up.

Chain hoist with 6:1 reduced drive.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

Electric Motor Operation: Provide UL listed electric operator, size as 10. recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. a.

Sensing Edge Protection:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) N/A.
- 2) Electric sensing edge.
- **Operator Controls:**

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Key operation with open, close, and stop controls.
- Push-button and key operated control stations with open, close, 3) and stop buttons.

\*\* NOTE TO SPECIFIER \*\* Select one of the following location paragraphs and delete the one not required.

- 4) Controls for interior location.
- Controls for exterior location. 5)
- 6) Controls for both interior and exterior location.

### \*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 7) Controls surface mounted.
- 8) Controls flush mounted.

Special Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the one not required.

- 1) Vehicle detector operation.
- 2) Radio control operation.
- 3) Card reader control.
- 4) Photocell operation.
- 5) Door timer operation.
- Commercial light package. 6)
- Explosion and dust ignition proof control wiring. 7)
- Motor Voltage: 115/230 single phase, 60 Hz.
- d. 11. Locking:

C.

#### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. Dual exterior curtain lock is optional.

- Standard Interior bottom bar slide bolt on each end of the door's bottom a. bar assembly.
- b. Optional Dual Exterior curtain locks, Model 770 slide bolt lock.
- C. Rolling Sheet Doors: Overhead Door Corporation Model 770.
  - Curtain: Roll formed, 26 gauge galvanized steel, per ASTM A 653 SQ Grade 1. 80, Galvanized G-30. Sections interlocked and permanently seamed together to form a continuous curtain. Provided with a PVC edge strip stapled on the edge of curtain's exterior side to minimize steel-to-steel contact, enhance door operation, and minimize curtain nesting and scratching.
  - 2. Sheet Finish:
    - Curtain sections shall receive rust-inhibitive, roll coating process, a. including 0.2 mils thick baked-on prime paint, and 0.6 mils thick bakedon polyester top coat. b.
      - Top Coat Color:

\*\* NOTE TO SPECIFIER \*\* Select one of the following color paragraphs and delete the ones not required. Reference manufacturers OHD Color Chart: R900-667.

- White. 1)
- 2) Glossy White.
- 3) Garnet Red.
- 4) Roval Blue.
- 5) Polar Blue.
- Forest Green. 6)
- 7) Desert Tan.
- 8) Teal.
- Dark Teal. 9)
- 10) Walnut Brown.
- 11) Bronze.
- 12) As selected by the Architect from the manufacturer's standard colors.
- Guides, angles, bottom bar stops, headplates and rings galvanized. c. Aluminum bottom bar clear anodized.
- Bottom Bar: Extruded aluminum reinforced with 1-1/2 inch by 1-1/2 inch (38 3. mm by 38 mm) roll formed steel angle and provided with a flexible PVC bulb type astragal to ensure a consistent seal along the floor. Extrusion designed to interlock with door curtain.

- 4. Bottom Bar Stops: Bottom bar stops shall be of "quick connect" design that allows the curtain to be inserted into the "universal" guide, then locked into place without the use of fasteners. Bottom bar stops shall be 14 gauge.
- 5. Guides: Guide roll-formed from 18-gauge steel. Guides 1-5/8 inches (41 mm) wide with UHMW polypropylene rub strips on each edge of the guide. Through hole, universal design shall allow easy access from the front of the guide for fastener attachment to the door jamb material. Guides of universal design for use in concrete, wood, steel or masonry jambs Guides prepunched to accept "quick connect" attachment of the headplate and bottom bar stops.
- 6. Headplates: Headplates of "quick connect" design for quick assembly to the guides. Headplates 14-gauge steel and includes steel roller bearings to prevent steel-to-steel contact for improved door operations and extended door shaft life.
- Counterbalance: Counterbalance assembly with "stepped" designed steel rings to ensure a tight and uniform curtain wrap. 3-3/8 inch (86 mm) I.D. springs \lubricated at factory to enhance long life and door operation. Shaft 1-5/16 inch (35 mm) diameter with .065 inch (1.65 mm) wall thickness to minimize door deflection
- 8. Operation: Manual push up.
- 9. Locking:

### \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the ones not required. Dual exterior curtain lock is optional.

- a. Standard Interior bottom bar slide bolt on each end of the door's bottom bar assembly.
- b. Optional Dual Exterior curtain locks, Model 770 slide bolt lock.

### 2.5 SPRINGLESS ROLLING SERVICE DOORS

\*\* NOTE TO SPECIFIER \*\* EverServe Model 610S Springless Rolling Service Doors are designed for exterior and interior openings that require a high-cycle performance door. Available in a maximum height up to 20 feet and a maximum width up to 30 feet. Standard wind load design 20 PSF. Contact the manufacturer for additional information.

- A. EverServe Model 610S Springless Rolling Service Doors by Overhead Door Corporation.
  - 1. Curtain: Interlocking roll-formed metal slats as specified with endlocks attached to each end of alternate slats to prevent lateral movement.

### \*\* NOTE TO SPECIFIER \*\* Select one of the following profiles and thickness paragraphs; and delete the ones not required.

- a. Curved Profile type C-187 for doors up to 15 feet 4 inches wide shall be fabricated:
  - 1) 22 gauge galvanized steel.
  - 2) 20 gauge galvanized steel.
  - 3) 18 gauge galvanized steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .040 inch (1 mm) aluminum.
- b. Curved Profile type C-275 for doors up to 20 feet wide shall be fabricated of:
  - 1) 22 gauge galvanized steel.
  - 2) 20 gauge galvanized steel.
  - 3) 18 gauge galvanized steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .050 inch (1.29 mm) aluminum.

- c. Flat Profile type F-265 for doors up to 20 feet wide fabricated of:
  - 1) 22 gauge galvanized steel.
  - 2) 20 gauge galvanized steel.
  - 3) 18 gauge galvanized steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .040 inch (1 mm) aluminum.

\*\* NOTE TO SPECIFIER \*\* Fenestrated Service doors are optional. Ventilated slats offer 25% open area. Select one of the following paragraphs as required and delete the one not required. Delete entirely if not required. Requires curved profile C-275 or flat profile F-265 slat minimum 18 gauge.

- d. Fenestrated Service Doors:
  - 1) Provide slats with 3 inches by 5/8 inch uniformly spaced openings
  - 2) Provide slats with 10 inches by 1 inch uniformly spaced openings
- e. Ventilated Service Doors: Provide slats with 1/16 inch (16 mm)
- diameter perforations 3/32 inch (2.4 mm) on center staggered rows. 2. Curtain and Hood Finish:
  - a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard.

- 1) Polyester Top Coat.
  - (a) Gray polyester.
  - (b) Tan polyester.
  - (c) White polyester.
  - (d) Brown polyester.
- 2) Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection.

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 3) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
- b. Stainless Steel: Slats shall be stainless steel finished as follows. Hoods are only available in No. 4 satin finish.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: 2B mill finish.
- 2) Finish: No. 4 satin finish.
- c. Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- 1) Finish: Mill finish.
- 2) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 3. Weatherseals:

а

Vinvl bottom seal.

\*\* NOTE TO SPECIFIER \*\* Guide weatherseals are optional delete if not required.

- Guide weatherseal. b.
- 4. Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides. a.

Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- Steel. 1)
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 5. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.

Material: a.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- 1) Steel.
  - 2) High usage guide wear strips.
- Brackets: 6.

7.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- Hot rolled prime painted steel to support counterbalance, curtain and a. hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- PowderGuard Premium powder coat in black color. a.
- PowderGuard Premium powder coat color as selected by the Architect. b.
- PowderGuard Zinc base coat, grav. C.
- PowderGuard Zinc base coat with PowderGuard Premium powder coat d. color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- PowderGuard Max powder coat color as selected by the Architect. f.

\*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

Motor: Direct drive, integrated gear motor/brake assembly sized for openings. 8. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V. a.
- Supply Voltage: 230V AC, 3-phase, operating range 208/245V. b.
- Supply Voltage: 440/480V AC, 3-phase. Requires appropriate step c. down transformer...

d. Supply Voltage: 575V AC, 3-phase. Requires appropriate step down transformer.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- e. Left hand mount.
- f. Right hand mount.
- Control Panel: Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions and fault conditions. Time delay self-close timer and non-resettable cycle counter are included. Enclosure is IP54 rated (NEMA 3 equivalent).
- 10. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- 11. Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- a. 24 gauge galvanized steel with intermediate supports as required.
- b. Stainless steel, 24 gauge hood with intermediate supports as required.
- c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

- d. Provide with sloped hood and endcovers for exterior mounting.
- 12. Safety Devices: Provide door with following safety devices:

#### \*\* NOTE TO SPECIFIER \*\* The following two paragraphs come standard.

- a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
- b. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.
- c. Sensing Edge Protection (option; not standard)

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph or delete if not required.

- Electric sensing edge.
- 13. Actuators:

1)

a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Radio control.
- c. Interior Push buttons.
- d. Exterior Push buttons.
- e. Interior Key switch.
- f. Exterior Key switch.
- g. Loop detectors.
- h. Motion detectors.
- i. Warning light.
- 14. Wind Load: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) in conformance with DASMA 108-2012 and as required by local codes without damage to door or assembly components.

### \*\* NOTE TO SPECIFIER \*\* EverServe Model 620S Springless Rolling Service Doors are designed for exterior and interior openings that require a high-cycle performance door.

Available in a maximum height up to 20 feet and a maximum width up to 30 feet. Standard wind load design of 20 PSF. Contact the manufacturer for additional information.

- B. EverServe Model 620S Springless Rolling Service Doors with Stormtite perimeter seals by Overhead Door Corporation.
  - 1. Curtain: Interlocking roll-formed metal slats as specified with endlocks

attached to each end of alternate slats to prevent lateral movement.

\*\* NOTE TO SPECIFIER \*\* Select one of the following material and thickness paragraphs; and delete those not required.

- a. Flat Profile type F-265 for doors up to 20 feet wide fabricated of:
  - 1) 22 gauge galvanized steel.
  - 2) 20 gauge galvanized steel.
  - 3) 18 gauge galvanized steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .050 inch (1.29 mm) aluminum.

### \*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select one of the following paragraphs as required and delete the one not required. Delete entirely if not required.

- b. Vision Lites: Provide with uniformly spaced openings with Plexiglas
  - covers over openings.
  - 1) Size: 3 inch by 5/8 inch (76 mm by 16 mm).
  - 2) Size: 10 inch by 1 inch (254 mm by 25.4 mm)
- 2. Curtain and Hood Finish:
  - a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard.

- 1) Polyester Top Coat.
  - (a) Gray polyester.
  - (b) Tan polyester.
  - (c) White polyester.
  - (d) Brown polyester.
- 2) Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection.

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 3) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
- b. Stainless Steel: Slats shall be stainless steel finished as follows. Hoods are only available in No. 4 satin finish.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: 2B mill finish.
- 2) Finish: No. 4 satin finish.
- Aluminum: Slats and hood shall be aluminum finished as follows.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

1) Finish: Mill finish.

c.

2) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 3. Weatherseals:

a. Vinyl bottom seal, exterior guide and internal hood seals.

\*\* NOTE TO SPECIFIER \*\* Guide and lintel weatherseals are optional delete if not required.

- b. Interior guide weatherseal.
- c. Lintel weatherseal.
- 4. Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides.

#### a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 5. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.
  - a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- 1) Steel.
- 2) High usage guide wear strips.

6. Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- 7. Finish; Bottom Bar, Guides and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- c. PowderGuard Zinc base coat, gray.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- f. PowderGuard Max powder coat color as selected by the Architect.

\*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

 Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V.
- b. Supply Voltage: 230V AC, 3-phase, operating range 208/245V.
- c. Supply Voltage: 440/480V AC, 3-phase. Requires appropriate step down transformer..
- d. Supply Voltage: 575V AC, 3-phase. Requires appropriate step down transformer.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- e. Left hand mount.
- f. Right hand mount.
- Control Panel: Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions and fault conditions. Time delay self-close timer and non-resettable cycle counter are included. Enclosure is IP54 rated (NEMA 3 equivalent).
- 10. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- 11. Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Provide with internal hood baffle weatherseal. Fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- a. 24 gauge galvanized steel with intermediate supports as required.
- b. Stainless steel, 24 gauge hood with intermediate supports as required.
- c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

- d. Provide with sloped hood and endcovers for exterior mounting.
- 12. Safety Devices: Provide door with following safety devices:
- \*\* NOTE TO SPECIFIER \*\* The following two paragraphs come standard.
  - a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
  - b. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.
  - c. Sensing Edge Protection (option; not standard)

### \*\* NOTE TO SPECIFIER \*\* Select the following paragraph or delete if not required.

- 1) Electric sensing edge.
- 13. Actuators:
  - a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Radio control.
- c. Interior Push buttons.
- d. Exterior Push buttons.
- e. Interior Key switch.
- f. Exterior Key switch.
- g. Loop detectors.
- h. Motion detectors.
- i. Warning light.

14. Wind Load: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) in conformance with DASMA 108-2012 and as required by local codes without damage to door or assembly components.

\*\* NOTE TO SPECIFIER \*\* EverServe Model 625S Springless Insulated Rolling Service Doors are designed for exterior and interior openings that require a high-cycle performance door. Available in a maximum height of 20 feet and a maximum width of 30 feet. Standard wind load design 20 PSF. Contact the manufacturer for additional information.

- C. EverServe Model 625S Insulated Springless Rolling Service Doors with Stormtite perimeter seals by Overhead Door Corporation.
  - Curtain: Interlocking roll-formed metal slats as specified with endlocks 1. attached to each end of alternate slats to prevent lateral movement.

\*\* NOTE TO SPECIFIER \*\* Select one of the following materials and thickness paragraphs; and delete those not required.

- a. Flat Profile insulated type F-265i with 24 gauge back covering steel or stainless steel; .024 inch (.06 mm) aluminum, for doors up to 20 feet wide fabricated of:
  - 1) 24 gauge powder coated steel.
  - 2) 22 gauge galvanized steel.
  - 3) 20 gauge galvanized steel.
  - 18 gauge galvanized steel. 4)
  - 22 gauge stainless steel. 5)
  - 20 gauge stainless steel. 6)
  - .040 inch (1 mm) Aluminum. 7)
- Insulation: Slat cavity shall be filled with CFC-free, foamed-in-place, b. polyurethane insulation.

### \*\* NOTE TO SPECIFIER \*\* Vision lites are optional. Select one of the following paragraphs as required and delete the one not required. Delete entirely if not required.

- Insulated Vision Lites: Provide with uniformly spaced openings. Provide c. with dual wall polycarbonate lites.
  - Size: 3 inch by 5/8 inch (76 mm by 16 mm) 1)
  - 2) Size: 10 inch by 1 inch (254 mm by 25.4 mm)
- 2. Performance:
  - R-Value: 7.7. U-Value: 0.13. a.
  - Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with b. HZ noise generator) as per ASTM E 90.
  - Installed System Sound Rating: STC-21 as per ASTM E 90. c.
  - U-factor: 0.91 NFRC test report, maximum U-factor of no higher than d. 1.00.
  - Air Infiltration: Meets ASHRAE 90.1 & IECC 2012/2015 C402.4.3 Air e. leakage < 1.00 cfm/ft2.
- Curtain and Hood Finish: 3.
  - Galvanized Steel: Slats and hood galvanized in accordance with ASTM a. A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs for Polyester top coat or Powder top coat and delete the one not required. Polyester top coat is standard. 1)

- Polyester Top Coat.
  - (a) Gray polyester.
  - Tan polyester. (b)
  - White polyester. (c)
  - Brown polyester. (d)
- Powder Coat: 2)

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection.

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 3) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
- b. Stainless Steel: Slats shall be stainless steel finished as follows. Hoods are only available in No. 4 satin finish.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- 1) Finish: 2B mill finish.
- 2) Finish: No. 4 satin finish.

c. Aluminum: Slats and hood shall be aluminum finished as follows. \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- 1) Finish: Mill finish.
- 2) Finish: Powder Coat:

\*\* NOTE TO SPECIFIER \*\* PowderGuard Premium polyester powder coat available in 197 colors; custom color match options available. PowderGuard Max Finish with 4 times the hardness of standard powder coat is also available in 197 colors. See PowderGuard Finish brochure for color selection

- (a) PowderGuard Premium powder coat color as selected by the Architect.
- (b) PowderGuard Max powder coat, color as selected by Architect.
- 4. Weatherseals:

a. Vinyl bottom seal, exterior guide and internal hood seals.

\*\* NOTE TO SPECIFIER \*\* Guide and weatherseals are optional delete if not required.

- b. Interior guide weatherseal.
- c. Lintel weatherseal.
- Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides.
   a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 6. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.
  - a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- 1) Steel.
  - 2) High usage guide wear strips.
- 7. Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.

8. Finish; Bottom Bar, Guides and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- c. PowderGuard Zinc base coat, gray.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- f. PowderGuard Max powder coat color as selected by the Architect...

\*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

 Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V.
- b. Supply Voltage: 230V AC, 3-phase, operating range 208/245V.
- c. Supply Voltage: 440/480V AC, 3-phase. Requires appropriate step down transformer..
- d. Supply Voltage: 575V AC, 3-phase. Requires appropriate step down transformer.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- e. Left hand mount.
- f. Right hand mount.
- Control Panel: Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions and fault conditions. Time delay self-close timer and non-resettable cycle counter are included. Enclosure is IP54 rated (NEMA 3 equivalent).
- 11. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- 12. Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Provide with internal hood baffle weatherseal. Fabricated of:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- a. 24 gauge galvanized steel with intermediate supports as required.
- b. Stainless steel, 24 gauge hood with intermediate supports as required.c. Aluminum hood with intermediate supports as required.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

d. Provide with sloped hood and endcovers for exterior mounting.

13. Safety Devices: Provide door with following safety devices:

### \*\* NOTE TO SPECIFIER \*\* The following two paragraphs come standard.

- a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
- b. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.

#### Sensing Edge Protection (option; not standard)

## \*\* NOTE TO SPECIFIER \*\* Select the following paragraph or delete if not required.

- 1) Electric sensing edge.
- 14. Actuators:

c.

a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Radio control.
- c. Interior Push buttons.
- d. Exterior Push buttons.
- e. Interior Key switch.
- f. Exterior Key switch.
- g. Loop detectors.
- h. Motion detectors.
- i. Warning light.
- 15. Wind load: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) in conformance with DASMA 108-2012 and as required by local codes without damage to door or assembly components.

## 2.6 ADVANCED PERFORMANCE ROLLING SERVICE DOORS

\*\* NOTE TO SPECIFIER \*\* RapidSlat Model 611 Rolling Service Doors are designed for exterior and interior openings that require a high-speed, high-cycle door. Available in a maximum height up to 20 feet and a maximum width up to 30 feet. Standard wind load design 20 PSF. Note that wind load design does not apply when optional high usage guide wear strips are selected. Wind load ratings up to and including Miami-Dade County and/or FBC are available. Contact the manufacturer for additional information.

- A. RapidSlat Model 611 Rolling Service Doors by Overhead Door Corporation.
  - 1. Curtain: Interlocking roll-formed metal slats as specified with endlocks attached to each end of alternate slats to prevent lateral movement.

\*\* NOTE TO SPECIFIER \*\* Select one of the following profiles and thickness paragraphs; and delete the ones not required.

- a. Curved Profile type C-187 for doors up to 15 feet 4 inches wide shall be fabricated:
  - 1) 22 gauge powder coated steel.
  - 2) 20 gauge powder coated steel.
  - 3) 18 gauge powder coated steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .040 inch (1 mm) aluminum.
- b. Curved Profile type C-275 for doors up to 20 feet wide shall be fabricated of:
  - 1) 22 gauge powder coated steel.
  - 2) 20 gauge powder coated steel.
  - 3) 18 gauge powder coated steel.
  - 4) 22 gauge stainless steel.
  - 5) 20 gauge stainless steel.
  - 6) .050 inch (1.29 mm) aluminum.
- c. Flat Profile type F-265 for doors up to 20 feet wide fabricated of:
  - 1) 22 gauge powder coated steel.

- 2) 20 gauge powder coated steel.
- 3) 18 gauge powder coated steel.
- 4) 22 gauge stainless steel.
- 5) 20 gauge stainless steel.
- .050 inch (1.29 mm) aluminum. 6)

\*\* NOTE TO SPECIFIER \*\* Fenestrated Service doors are optional. Ventilated slats offer 25% open area. Select one of the following paragraphs as required and delete the one not required. Delete entirely if not required. Requires curved profile C-275 or flat profile C-265 slat minimum 18 gauge.

- Fenestrated Service Doors: Provide slats with 3 inches by 5/8 inch d uniformly spaced openings:
- Ventilated Service Doors: Provide slats with 1/16 inch (16 mm) e. diameter perforations 3/32 inch (2.4 mm) on center staggered rows. f.
  - Curtain Finish:
    - PowderGuard Max powder coat. 1)

\*\* NOTE TO SPECIFIER \*\* Select one of the following four paragraphs for PowderGuard Max powder coat finish and delete those not required. Grav, Tan and White are standard color offering on RapidSlat. Finish is also available in 197 color options. See PowderGuard Finish brochure for color selections. PowderGuard Max is four times harder than regular powder coat providing enhanced strength and durability to the finish and performance in high cycle applications. This finish is required on the curtain to maintain finish warranty for RapidSlat product.

- Gray. (a)
- (b) Tan.
- (c) White.
- Color as selected by Architect. (d)
- 2. Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides.

a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 3. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.

### Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- 1) Steel.
- 2) High usage guide wear strips.
- Brackets: 4.

5.

a.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides, Headplate and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- PowderGuard Premium powder coat in black color. a.
- PowderGuard Premium powder coat color as selected by the Architect. b.

- c. PowderGuard Zinc base coat, gray.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- f. PowderGuard Max powder coat color as selected by the Architect.

### \*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

- Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.
  - a. Opening Speed: Up to 24 inches per second.
  - b. Closing Speed: 12 inches per second.

# \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V.
- b. Supply Voltage: 230V AC, 3-phase, operating range 208/245V.
- c. Supply Voltage: 440/480V AC, 3-phase.
- d. Supply Voltage: 575V AC, 3-phase. Requires appropriate step down transformer.

# \*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- e. Left hand mount.
- f. Right hand mount.
- 7. Control Panel: Provide electronic Variable Frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Timer to close programming options and non-resettable cycle counter are included. Enclosure is NEMA 4X rated. Control system is UL508A certified. Junction box is IP67 rated.
- 8. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- 9. Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Fabricated of:
  - a. Material:

b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Aluminum.
- 3) Stainless steel with brushed finish.
- Steel/Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete those not required. Delete entirely if stainless steel is specified. Black is standard. Optional colors are available, contact manufacturer for PowderGuard powder coat color selections.

- 1) Polyester paint in black color (steel only).
- 2) PowderGuard Premium powder coat, color as selected by Architect.
- 3) PowderGuard Textured powder coat, color as selected by Architect.

4) PowderGuard Max powder coat, color as selected by Architect. \*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

c. Provide with sloped top for exterior mounting.

10. Safety Devices: Provide door with following safety devices:

- a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
- b. Wireless, monitored safety edge reverses downward motion upon impact.
- c. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.
- 11. Actuators:
  - a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Loop detectors.
- c. Radio control.
- d. Interior Push buttons.
- e. Exterior Push buttons.
- f. Interior Key switch.
- g. Exterior Key switch.
- h. Motion detectors.
- i. Warning light.
- j. Horns and/or strobes.
- k. Second set of photoelectric sensors.
- 12. Wind Load Design:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind load is 20 PSF. Note that if optional high usage guide wear strips are used the wind load warranty does not apply for wind load over 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification or TDI approval.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL# \_\_\_\_.
- d. TDI approval # \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* RapidSlat Model 621 Stormtite Doors are designed for exterior and interior openings that require a high-speed, high-cycle door. Available in a maximum height up to 20 feet and a maximum width up to 30 feet. Standard wind load design 20 PSF. Note that wind load design does not apply when optional high usage guide wear strips are selected. Wind load ratings up to and including Miami-Dade County and/or FBC are available. Contact the manufacturer for additional information.

- B. RapidSlat Model 621 Stormtite Rolling Service Doors by Overhead Door Corporation.
  - 1. Curtain: Interlocking roll-formed metal slats as specified with endlocks attached to each end of alternate slats to prevent lateral movement.
    - a. Flat Profile type F-265 for doors up to 20 feet wide fabricated of:
      - 1) 22 gauge powder coated steel.
      - 2) 20 gauge powder coated steel.
      - 3) 18 gauge powder coated steel.
      - 4) 22 gauge stainless steel.
      - 5) 20 gauge stainless steel.
      - 6) .050 inch (1.29 mm) aluminum.
    - b. Curtain Finish:
      - 1) PowderGuard Max powder coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following four paragraphs for PowderGuard Max powder coat finish and delete those not required. Gray, Tan and White are standard color offering on RapidSlat. Finish is also available in 197 color options. See PowderGuard Finish brochure for color selections. PowderGuard Max is four times harder than regular powder coat providing enhanced strength and durability to the finish and performance in high cycle applications. This finish is required on the curtain to maintain finish warranty for RapidSlat product.

- (a) Gray.
- (b) Tan.
- (c) White.
- (d) Color as selected by Architect.
- 2. Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides.

### a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 3. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.

a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- 1) Steel.
- 2) High usage guide wear strips.
- 4. Brackets:

5.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides, Headplate and Brackets:

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- c. PowderGuard Zinc base coat, gray.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.f. PowderGuard Max powder coat color as selected by the Architect.

## \*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

- 6. Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.
  - a. Opening Speed: Up to 24 inches per second.
  - b. Closing Speed: 12 inches per second.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V.
- b. Supply Voltage: 230V AC, 3-phase, operating range 208/245V.
- c. Supply Voltage: 440/480V AC, 3-phase.
- d. Supply Voltage: 575V AC, 3-phase. Requires appropriate step down transformer.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- e. Left hand mount.
  - f. Right hand mount.
- 7. Control Panel: Provide electronic Variable Frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Timer to close programming options and non-resettable cycle counter are included. Enclosure is NEMA 4X rated. Control system is UL508A certified. Junction box is IP67 rated.
- 8. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Fabricated of:
   a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Standard hood assembly is 24 gauge black painted steel.

- 1) Steel.
- 2) Aluminum.
- 3) Stainless steel with brushed finish.
- Steel/Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete those not required. Delete entirely if stainless steel is specified. Black is standard. Optional colors are available, contact manufacturer for PowderGuard powder coat color selections.

- 1) Polyester paint in black color (steel only)
- 2) PowderGuard Premium powder coat, color as selected by Architect.
- 3) PowderGuard Textured powder coat, color as selected by Architect.
- 4) PowderGuard Max powder coat, color as selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

- c. Provide with sloped top for exterior mounting.
- 10. Safety Devices: Provide door with following safety devices:
  - a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
  - b. Wireless, monitored safety edge reverses downward motion upon impact.
  - c. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.
- 11. Actuators:

b.

a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Loop detectors.
- c. Radio control.

- d. Interior Push buttons.
- e. Exterior Push buttons.
- f. Interior Key switch.
- g. Exterior Key switch.
- h. Motion detectors.
- i. Warning light.
- j. Horns and/or strobes.
- k. Second set of photoelectric sensors.
- 12. Wind Load Design:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind load is 20 PSF. Note that if optional high usage guide wear strips are used the wind load warranty does not apply for wind load over 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification or TDI approval.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL# \_\_\_\_.
- d. TDI approval # \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* RapidSlat Model 626 Stormtite Insulated Doors are designed for exterior and interior openings that require a high-speed, high-cycle door. Available in a maximum height up to 20 feet and a maximum width of up to 30 feet. Standard wind load design 20 PSF. Note that wind load design does not apply when optional high usage guide wear strips are selected. Wind load ratings up to and including Miami-Dade County and/or FBC available. Contact the manufacturer for additional information.

- C. RapidSlat Model 626 Stormtite Insulated Rolling Service Doors by Overhead Door Corporation.
  - 1. Curtain: Interlocking roll-formed metal slats as specified with endlocks attached to each end of alternate slats to prevent lateral movement.
    - a. Flat Profile insulated type F-265i with 24 gauge back covering steel or stainless steel; .024 inch (.06 mm) aluminum, for doors up to 20 feet wide fabricated of:
      - 1) 24 gauge powder coated steel.
      - 2) 22 gauge powder coated steel.
      - 3) 20 gauge powder coated steel.
      - 4) 18 gauge powder coated steel.
      - 5) 22 gauge stainless steel.
      - 6) 20 gauge stainless steel.
      - 7) .040 inch (1 mm Aluminum).
    - b. Insulation: Slat cavity shall be filled with CFC-free, foamed-in-place, polyurethane insulation.
      - 1) R-Value: 7.7, U-Value: 0.13.
      - 2) Sound Rating: STC-21.
    - c. Slat Finish:
      - 1) PowderGuard Max powder coat.

\*\* NOTE TO SPECIFIER \*\* Select one of the following four paragraphs for PowderGuard Max powder coat finish and delete those not required. Gray, Tan and White are standard color offering on RapidSlat. Finish is also available in 197 color options. See PowderGuard Finish brochure for color selections. PowderGuard Max is four times harder than regular powder coat providing enhanced strength and durability to the finish and performance in high cycle applications. This finish is required on the curtain to maintain finish warranty for RapidSlat product.

- (a) Gray.
- (b) Tan.
- (c) White.
- (d) Color as selected by Architect.

2. Bottom Bar: Two metal angles, minimum thickness 3/16 inch, bolted back to back to reinforce curtain in the guides. a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required.

- 1) Steel.
- 2) Extruded aluminum.
- 3) Stainless steel with brushed finish.
- 3. Guides: Three Structural steel angles provided with high usage guide wear strip to minimize wear and reduce sound.

Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Note that high usage guide wear strips to minimize wear and reduce sound; not available on doors designed for over 20 psf wind load.

- Steel. 1)
- 2) High usage guide wear strips.

4. Brackets:

a.

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- Hot rolled prime painted steel to support counterbalance, curtain and a. hood.
- b. Galvanized steel to support counterbalance, curtain and hood.
- Finish; Bottom Bar, Guides, Headplate and Brackets: 5.

\*\* NOTE TO SPECIFIER \*\* Select one of the following finish paragraphs and delete those not required. Black powder coat is standard. PowderGuard Premium and PowderGuard Max powder coat available in 197 colors; custom color match options available. PowderGuard Textured Finish available in 11 color options. See PowderGuard Finish brochure for color selections.

- PowderGuard Premium powder coat in black color. a.
- b. PowderGuard Premium powder coat color as selected by the Architect.
- PowderGuard Zinc base coat, gray. c.
- d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
- e. PowderGuard Textured powder coat color as selected by the Architect.
- PowderGuard Max powder coat color as selected by the Architect. f.

\* NOTE TO SPECIFIER \*\* Select the following optional paragraph if required. Delete if not required.

\*\* NOTE TO SPECIFIER \*\* Note that motor HP is dependent on the door size(s) required. Contact manufacturer for HP requirements.

- 6. Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.
  - Opening Speed: Up to 24 inches per second. a.
  - Closing Speed: 12 inches per second. b.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220/240V.
- Supply Voltage: 230V AC, 3-phase, operating range 208/245V. b.
- Supply Voltage: 440/480V AC, 3-phase. C.
- Supply Voltage: 575V AC, 3-phase. Requires appropriate step down d. transformer.

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the one not required.

- Left hand mount. e.
- f. Right hand mount.

- 7. Control Panel: Provide electronic Variable Frequency drive controller with microprocessor self-diagnostics. LCD readout indicates door action, alarm conditions, and fault conditions. Timer to close programming options and non-resettable cycle counter are included. Enclosure is NEMA 4X rated. Control system is UL508A certified. Junction box is IP67 rated.
- 8. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
- Hood: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets. Fabricated of:
   a. Material:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete the ones not required. Standard hood assembly is 24 gauge black painted steel.

- 1) Steel.
- 2) Aluminum.
- 3) Stainless steel with brushed finish.
- Steel/Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs; and delete those not required. Delete entirely if stainless steel is specified. Black is standard. Optional colors are available, contact manufacturer for PowderGuard powder coat color selections.

- 1) Polyester paint in black color (steel only)
- 2) PowderGuard Premium powder coat, color as selected by Architect.
- 3) PowderGuard Textured powder coat, color as selected by Architect.
- 4) PowderGuard Max powder coat, color as selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Select the following paragraph for exterior mounted doors; and delete if not required.

c. Provide with sloped top for exterior mounting.

- 10. Safety Devices: Provide door with following safety devices:
  - a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
  - b. Wireless, monitored safety edge reverses downward motion upon impact.
  - c. Built-in (to motor assembly) brake mechanism eliminates uncontrolled curtain travel independent of other safeties.
- 11. Actuators:

b.

a. One Open/Close/Stop push button station incorporated into Control Panel.

\*\* NOTE TO SPECIFIER \*\* Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.

- b. Loop detectors.
- c. Radio control.
- d. Interior Push buttons.
- e. Exterior Push buttons.
- f. Interior Key switch.
- g. Exterior Key switch.
- h. Motion detectors.
- i. Warning light.
- j. Horns and/or strobes.
- k. Second set of photoelectric sensors.
- 12. Wind Load Design:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete the one not required. Standard wind load is 20 PSF. Note that if optional high usage guide wear strips are used the wind load warranty does not apply for wind load over 20 PSF. Contact the manufacturer for current data on Miami-Dade County, FBC Certification or TDI approval.

- a. Standard wind load shall be 20 PSF.
- b. Miami-Dade County NOA \_\_\_\_.
- c. FBC certification FL# \_\_\_\_.
- d. TDI approval # \_\_\_\_\_.

## 2.7 ROLLING SECURITY SHUTTERS

\*\* NOTE TO SPECIFIER \*\* Security Shutter Model 653 is not wind load rated. This door is ideal for interior applications or exterior applications where wind load is not required. Available in a maximum height up to 14 feet and a maximum width up to 20 feet. Contact the manufacturer for additional information.

- A. Aluminum Light Duty Shutter: Overhead Door Corporation, Model 653.
  - 1. Wall Mounting Condition:

\*\* NOTE TO SPECIFIER \*\* Select one of the following two paragraphs and delete the one not required.

- a. Face-of-wall mounting.
- b. Between jambs mounting.
- 2. Curtain: Interlocking extruded aluminum slats constructed of .05 inch aluminum. Nickel plated, steel screws and end locks to retain curtain within guides and prevent lateral movement. Over 16 feet wide will come standard with plastic roller retainers to strengthen curtain.
- 3. Fenestration/Perforation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs and delete those not required.

- a. Open fenestration 1 inch by 1 inch; 0.5 inch uniformly spaced openings; full curtain.
- b. Perforation full curtain.
- c. Partial open fenestration, 1 inch by 1 inch; 0.5 inch uniformly spaced openings; Height of curtain segment to be fenestrated as indicated on the Drawings.
- d. Partial perforation, height of curtain segment to be perforated as indicated on the Drawings.
- 4. Curtain and Hood Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following for PowderGuard Premium powder coat and delete the ones not required. PowderGuard Premium powder coat finish is standard in the four colors listed.

- a. Powder Coat: PowderGuard Premium
  - 1) Silver powder coat to match look of clear anodized aluminum.
  - 2) Bronze powder coat to match look of bronze anodized.
  - 3) White.
  - 4) Almond.
  - 5) PowderGuard Premium color as selected by the Architect.
- 5. Bottom Bar and Locking:

\*\* NOTE TO SPECIFIER \*\* Select from the following paragraphs and delete the ones not required.

- a. Aluminum compact bottom bar with vinyl bulb seal with coil side left and right slide locks. Powder coat to match curtain color selection. (standard).
- b. Aluminum compact bottom bar with vinyl bulb seal with padlock-able non-coil side left and right slide locks. Powder coat to match curtain color selection.

- c. Tubular aluminum cylinder locking bottom bar with weatherstrip. Requires 1.5 inch by 3 inch wall tubes for face of wall mount.
- d. Locking doors with tube motor shall be provided with interlock micro switch.
- e. Aluminum compact bottom bar with vinyl bulb seal; non-locking.
  - Step angle attachment option.
- 6. Guides: Extruded aluminum channels with continuous PVC wear strips. Powder coat: color to match curtain.
- 7. Brackets: Steel plate to support counterbalance, curtain and hood. Powder coat to match curtain color selection.
- 8. Hood: Aluminum 2 piece square hood silver powder coated to match curtain color selection. Provide with intermediate support brackets as required. Hood with brackets; box sized to match manufacturer's recommendation based on door height.
- 9. Counterbalance: Extruded aluminum barrel housing counterbalance spring assembly.
- 10. Operation:

f.

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete the ones not required.

- a. Manual push up.
- b. Crank operation.

c. Electric tube motor with crank for emergency egress manual override. \*\* NOTE TO SPECIFIER \*\* Include the following paragraph is electric motor operation is required and delete if not required.

- 11. Electric Motor Operation: Provide UL listed electric operator, size as recommended by manufacturer:
  - a. Operator Controls:
    - 1) Double throw hard wired wall switch.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

# \*\* NOTE TO SPECIFIER \*\* Select the following paragraph for electric operation of coiling doors and delete if not required.

- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.
- H. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

## 3.4 ADJUSTING

- A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

## 3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

### 3.6 PROTECTION

A. Protect installed products until completion of project.

## END OF SECTION