

**The Genuine. The Original.**



**SECTION 083313  
COILING COUNTER DOORS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Metal coiling counter doors.
- B. Metal coiling counter doors with integral frame and sill.
- C. Wood coiling counter doors.

**1.02 RELATED REQUIREMENTS**

- A. Section << 061000 - Rough Carpentry>>: Rough openings.
- B. Section << 079200 - Joint Sealants>>: Sealing joints between frames and adjacent construction.
- C. Section << 087100 - Door Hardware>>: Cylinder cores and keys.

Section << 260583 - Wiring Connections>>: Power to disconnect.

**1.03 REFERENCE STANDARDS**

- A. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2023a.
- B. ITS (DIR) - Directory of Listed Products; Current Edition.
- C. UL (DIR) - Online Certifications Directory; Current Edition.

**1.04 SUBMITTALS**

- A. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish. << Include data on electrical operation.; or **None - N/A**>>
- B. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.
- C. Manufacturer's Instructions: Indicate installation sequence and installation, adjustment, and alignment procedures.
- D. Installer's qualification statement.
- E. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.
- F. Specimen warranty.

## 1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum << **three**; or \_\_\_\_\_>> years of<< **documented**; \_\_\_\_\_; or **None - N/A**>> experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with minimum << **three**; or \_\_\_\_\_>> years of<< **documented**; \_\_\_\_\_; or **None - N/A**>> experience<< **and approved by manufacturer**; or **None - N/A**>>.
- C. Products Requiring Electrical Connection: Listed and classified by << **ITS (DIR)**; **UL (DIR)**; **testing firm acceptable to authorities having jurisdiction**; or \_\_\_\_\_>> as suitable for purpose specified and indicated.

## 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture.
- C. Store materials in dry, warm, ventilated, weathertight location.

## 1.07 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer warranty for counterbalance shaft assembly for years indicated under individual doors. Complete forms in <<**Owner**>>'s name and register with manufacturer.

## PART 2 PRODUCTS

### 2.01 MANUFACTURER

- A. Overhead Door Corporation; www.overheaddoor.com; 1 (800) 929-3667.
- B. Substitutions: Not permitted.

### 2.02 COILING COUNTER DOORS

- A. Overhead Door™ Brand; Model 650.
  - 1. Slats: Interlocking, roll-formed, metal slats.
  - 2. Width:       feet (      mm).
  - 3. Height:       feet (      mm).
  - 4. Mounting: << **Surface-mounted on side indicated on drawings; or Between jamb**>>.
  - 5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.
  - 6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
  - 7. Door-Only Warranty: Two years.
  - 8. Curtain Material: << **22-gauge, 0.0336-inch, (0.853 mm)**>> galvanized steel; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
    - a. Slat Profile: F-158.
    - b. Fenestrated Slats: Not required.
    - c. Fenestrated Slats: Perforated holes.
    - d. Fenestrated Slats: << **5/8 by 3 inches (16 by 76 mm)**>>, uniformly spaced across width of curtain.
    - e. Vision Lites: Not required.
    - f. Vision Lites: << **5/8 by 3 inches (16 by 76 mm)**>>, with Plexiglass covers uniformly spaced across width of curtain.

g. Finish:

- 1) Standard polyester base coat. Color: << **Gray; Tan; White;** or \_\_\_\_\_>>.
  - 2) << **PowderGuard Premium powder coat; PowderGuard Textured powder coat;** or \_\_\_\_\_>>. << **Color: \_\_\_\_\_ ;** or **None - N/A**>>
9. Bottom Bar: << **Aluminum; Galvanized steel;** or \_\_\_\_\_>>.
- a. Profile: << **Extruded tube; Single angle;** or \_\_\_\_\_>>.
  - b. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Galvanized; Gray powder coat; Match curtain; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc Rich powder coat; Tan powder coat; White powder coat;** or \_\_\_\_\_>>. << **Color: \_\_\_\_\_ ;** or **None - N/A**>>
10. Locking Options to Include: << **Best cylinder.; Cylinder.; Slide lock.;** \_\_\_\_\_ ; or **None - N/A**>>
- a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only;** or \_\_\_\_\_>>.
  - b. Lock Access: Coil side.
11. Weatherstripping and Seals:
- a. Bottom Seal Astragal: << **Not required; Required;** or \_\_\_\_\_>>.
12. Side Guides, Channels: Constructed of << **aluminum; steel; 304 stainless steel;** or \_\_\_\_\_>> with members fully bolted together.
- a. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Gray powder coat; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc Rich powder coat; Tan powder coat; White powder coat;** or \_\_\_\_\_>>. << **Color: \_\_\_\_\_ ;** or **None - N/A**>>
13. Brackets: Galvanized steel to support counterbalance assembly and curtain.
- a. Finish: << **Gray powder coat; Match curtain; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan powder coat; White powder coat;** or \_\_\_\_\_>>. << **Color: \_\_\_\_\_ ;** or **None - N/A**>>
14. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
15. Hood:
- a. Manufacturer's standard sheet metal.
    - 1) << **24-gauge, 0.25-inch (0.635 mm)**>> stainless steel.
    - 2) << **24-gauge, 0.276-inch (0.701 mm)**>> galvanized steel.
    - 3) Aluminum.

- 4) Finish: << **Black anodized; Bronze anodized; Clear anodized; Gray primed; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan primed; White primed; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
  - b. Not required.
16. Manual Operation: Push up.

17. Motor Operation: << **Standard motor; Tube-mounted motor; or \_\_\_\_\_**>>.
- a. Override: << **Crank; Manual; or \_\_\_\_\_**>>.
  - b. Tube Motor Configuration:
    - 1) Timer to Close: Not applicable.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: Not applicable.
    - 4) Actuation: Provide push button.
    - 5) Motor Mounting: Within tube.
    - 6) Obstruction Safety Detection: Not applicable.
  - c. Standard Motor Configuration:
    - 1) Timer to Close: << **Automatic closing controlled by adjustable hold open time delay; Not required; or \_\_\_\_\_**>>.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: << **Horn and strobe combination; Traffic warning light; or \_\_\_\_\_**>>.
    - 4) Actuation: Provide << **push button; key switch; pull cord; loop detector; motion detector; and \_\_\_\_\_**>>.
    - 5) Motor Mounting: << **Wall-mounted; Front of hood; or \_\_\_\_\_**>>, << **right-hand side; left-hand side; or \_\_\_\_\_**>>.
    - 6) Obstruction Safety Detection:
      - (a) Constant Contact Button: << **Not required; Required; or \_\_\_\_\_**>>.
      - (b) Photo Eyes: << **NEMA 4X; None; Protected; Reflective; Standard; or \_\_\_\_\_**>>.
      - (c) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or \_\_\_\_\_ feet (\_\_\_\_\_ m)**>>.
    - 7) Reversing Safety Edge: << **Not required; Door provided with wireless, monitored electric safety edge; Door provided with wired, monitored safety edge; or \_\_\_\_\_**>>.

- B. Overhead Door™ Brand; Model 651.
- 1. Slats: Interlocking, roll-formed, metal slats.
  - 2. Width: \_\_\_\_\_ **feet (\_\_\_\_\_ mm)**.
  - 3. Height: \_\_\_\_\_ **feet (\_\_\_\_\_ mm)**.
  - 4. Mounting: << **Surface-mounted on side indicated on drawings; or Between jamb**>>.
  - 5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.

6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
7. Door-Only Warranty: Two years.
8. Curtain Material: << **22-gauge, 0.031-inch, (0.79 mm)**>> 304 stainless steel; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
  - a. Slat Profile: F-158.
  - b. Fenestrated Slats: Not required.
  - c. Fenestrated Slats: Perforated holes.
  - d. Fenestrated Slats: << **5/8 by 3 inches (16 by 76 mm)**>>, uniformly spaced across width of curtain.
  - e. Vision Lites: Not required.
  - f. Vision Lites: << **5/8 by 3 inches (16 by 76 mm)**>>, with Plexiglass covers uniformly spaced across width of curtain.
  - g. Finish: No.4 satin.
9. Bottom Bar: << **304 stainless steel; Aluminum; Galvanized steel; or \_\_\_\_\_**>>.
  - a. Profile: << **Extruded tube; Single angle; or \_\_\_\_\_**>>.
  - b. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Galvanized; Gray powder coat; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc-Rich powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
10. Locking Options to Include: << **Best cylinder.; Cylinder.; Slide lock.; \_\_\_\_\_.; or None - N/A**>>
  - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
  - b. Lock Access: Coil side.
11. Weatherstripping and Seals:
  - a. Bottom Seal Astragal: << **Required; Not required; or \_\_\_\_\_**>>.
12. Side Guides, Channels: Constructed of << **304 stainless steel; aluminum; steel; or \_\_\_\_\_**>> with members fully bolted together.
  - a. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Gray powder coat; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc-Rich powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
13. Brackets: Galvanized steel to support counterbalance assembly and curtain.
  - a. Finish: << **Gray powder coat; Match curtain; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
14. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
15. Hood:
  - a. Manufacturer's standard sheet metal.
    - 1) << **24-gauge, 0.25-inch (0.635 mm)**>> stainless steel.

- 2) << **24-gauge, 0.276-inch (0.701 mm)**>> galvanized steel.
  - 3) Aluminum.
  - 4) Finish: << **Black anodized; Bronze anodized; Clear anodized; Gray primed; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan primed; White primed; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
  - b. Not required.
16. Manual Operation: Push up.

17. Motor Operation: << **Standard motor; Tube-mounted motor; or \_\_\_\_\_**>>.
- a. Override: << **Crank; Manual; or \_\_\_\_\_]**>>.
  - b. Tube Motor Configuration:
    - 1) Timer to Close: Not applicable.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: Not applicable.
    - 4) Actuation: Provide push button.
    - 5) Motor Mounting: Within tube.
    - 6) Obstruction Safety Detection: Not applicable.
  - c. Standard Motor Configuration:
    - 1) Timer to Close: << **Not required; Automatic closing controlled by adjustable hold-open time delay; or \_\_\_\_\_**>>.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: << **Horn and strobe combination; Traffic warning light; or \_\_\_\_\_**>>.
    - 4) Actuation: Provide << **push button; key switch; pull cord; loop detector; motion detector; and \_\_\_\_\_**>>.
    - 5) Motor Mounting: << **Wall-mounted; Front of hood; or \_\_\_\_\_**>>, << **right-hand side; left-hand side; or \_\_\_\_\_**>>.
    - 6) Obstruction Safety Detection:
      - (a) Constant Contact Button: << **Not required; Required; or \_\_\_\_\_**>>.
      - (b) Photo Eyes: << **NEMA 4X; None; Protected; Reflective; Standard; or \_\_\_\_\_**>>.
      - (c) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or \_\_\_\_\_ feet (\_\_\_\_\_ m)**>>.
    - 7) Reversing Safety Edge: << **Door provided with wired monitored safety edge; Door provided with wireless monitored electric safety edge; Not required; or \_\_\_\_\_**>>.

C. Overhead Door™ Brand; Model 652.

1. Slats: Interlocking, roll-formed, metal slats.
2. Width: \_\_\_\_\_ **feet (\_\_\_\_\_ mm)**.
3. Height: \_\_\_\_\_ **feet (\_\_\_\_\_ mm)**.
4. Mounting: << **Between jamb; Surface-mounted on side indicated on drawings; or \_\_\_\_\_**>>.
5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.

6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
7. Door-Only Warranty: Two years.
8. Curtain Material: << **0.050-inch (1.27 mm)**>> aluminum; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
  - a. Slat Profile: F-158.
  - b. Fenestrated Slats: Not required.
  - c. Fenestrated Slats: Perforated holes.
  - d. Fenestrated Slats: << **5/8 by 3 inches (16 by 76 mm)**>>, uniformly spaced across width of curtain.
  - e. Vision Lites: Not required.
  - f. Vision Lites: << **5/8 by 3 inches (16 by 76 mm)**>>, with Plexiglass covers uniformly spaced across width of curtain.
- g. Finish: << **Black anodized; Bronze anodized; Clear anodized; Mill finish; PowderGuard Premium powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_.; or None - N/A**>>
9. Bottom Bar: << **Aluminum; Galvanized steel; or \_\_\_\_\_**>>.
  - a. Profile: << **Single angle; Extruded tube; or \_\_\_\_\_**>>.
  - b. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Galvanized; Gray powder coat; Match curtain; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc-Rich powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_.; or None - N/A**>>
10. Locking Options to Include: << **Best cylinder.; Cylinder.; Slide lock.; \_\_\_\_\_.; or None - N/A**>>
  - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
  - b. Lock Access: Coil side.
11. Weatherstripping and Seals:
  - a. Bottom Seal Astragal: << **Not required; Required; or \_\_\_\_\_**>>.
12. Side Guides, Channels: Constructed of << **304 stainless steel; aluminum; steel; or \_\_\_\_\_**>> with members fully bolted together.
  - a. Finish: << **Black anodized; Black powder coat; Bronze anodized; Clear anodized; Gray powder coat; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; PowderGuard Zinc-Rich powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_.; or None - N/A**>>
13. Brackets: Galvanized steel to support counterbalance assembly and curtain.
  - a. Finish: << **Gray powder coat; Match curtain; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan powder coat; White powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_.; or None - N/A**>>

14. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03-inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
15. Hood:
  - a. Manufacturer's standard sheet metal.
    - 1) << **24-gauge, 0.25-inch (0.635 mm)**>> stainless steel.
    - 2) << **24-gauge, 0.276-inch (0.701 mm)**>> galvanized steel.
    - 3) Aluminum.
    - 4) Finish: << **Black anodized; Bronze anodized; Clear anodized; Gray primed; Match curtain; No.4 satin; PowderGuard Premium powder coat; PowderGuard Textured powder coat; Tan primed; White primed; or \_\_\_\_\_**>>. << Color: \_\_\_\_\_.; or **None - N/A**>>
  - b. Not required.
16. Manual Operation: Push up.
17. Motor Operation: << **Standard motor; Tube-mounted motor; or \_\_\_\_\_**>>.
  - a. Override: << **Crank; Manual; or \_\_\_\_\_**>>.
  - b. Tube Motor Configuration:
    - 1) Timer to Close: Not applicable.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: Not applicable.
    - 4) Actuation: Provide push button.
    - 5) Motor Mounting: Within tube.
    - 6) Obstruction Safety Detection: Not applicable.
  - c. Standard Motor Configuration:
    - 1) Timer to Close: << **Automatic closing controlled by adjustable hold-open time delay; Not required; or \_\_\_\_\_**>>.
    - 2) Operation Supply Voltage: 115/208/230 V, 1-phase, 60 Hz.
    - 3) Signaling Device: << **Horn and strobe combination; Traffic warning light; or \_\_\_\_\_**>>.
    - 4) Actuation: Provide << **push button; key switch; pull cord; loop detector; motion detector; and \_\_\_\_\_**>>.
    - 5) Motor Mounting: << **Wall-mounted; Front of hood; or \_\_\_\_\_**>>, << **right-hand side; left-hand side; or \_\_\_\_\_**>>.
    - 6) Obstruction Safety Detection:
      - (a) Constant Contact Button: << **Not required; Required; or \_\_\_\_\_**>>.
      - (b) Photo Eyes: << **NEMA 4X; None; Protected; Reflective; Standard; or \_\_\_\_\_**>>.
      - (c) Light Curtain: << **3 feet (0.9 m); 6 feet (1.8 m); or \_\_\_\_\_ feet (\_\_\_\_\_ m)**>>.
    - 7) Reversing Safety Edge: << **Door provided with wired monitored safety edge; Door provided with wireless monitored electric safety edge; Not required; or \_\_\_\_\_**>>.

### 2.03 METAL COILING COUNTER DOORS WITH INTEGRAL FRAME AND SILL

- A. Overhead Door™ Brand; Model 655.
  1. Slats: Interlocking, roll-formed, metal slats.

2. Width: <<        **feet (**        **mm)**>>.
  
3. Height: <<        **feet (**        **mm)**>>.
4. Mounting: Between jamb.
5. Door-Only Warranty: One year.
6. Curtain Material: << **0.040-inch (1.016 mm)**>> aluminum.
  - a. Slat Profile: << **1-1/4 inch (32 mm)**>>, flat.
  - b. Endlocks: Stamped, hot-dip, galvanized endlocks riveted to each end of alternate slats to prevent lateral movement and limit slat deflection and bending stress.
  
  - c. Finish: << **Black anodized; Bronze anodized; Clear anodized; PowderGuard Premium powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_ ; or None - N/A**>>
7. Bottom Bar: 6063-T6 aluminum.
  - a. Finish: Clear anodized.
8. Locking Options to Include: << **Best cylinder; Cylinder; Slide lock; or \_\_\_\_\_**>>.
  - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
  - b. Lock Access: << **Both sides; Coil side; Opposite coil side; or \_\_\_\_\_**>>.
9. Weatherstripping and Seals:
  - a. Bottom Seal Astragal: << **Required; Not required; or \_\_\_\_\_**>>.
  - b. Guide Seal: << **Brush, one-sided; Not required; or \_\_\_\_\_**>>.
10. Brackets: Minimum << **12-gauge, 0.1046-inch (2.66 mm)**>> steel plate to support counterbalance assembly and form end closures. Provide ball bearings at rotating support points. Bolt plates to mounting structures with minimum << **1/4-inch (6 mm)**>> fasteners.
  - a. Material: << **ASTM A240/A240M**>>, 300 series stainless steel.
  - b. Finish: No.2B mill finish.
11. Counterbalance Assembly: Steel pipe barrel capable of carrying curtain load with maximum deflection of << **0.03-inch per foot (2.5 mm per m)**>> of door width.
  - a. Material: Heat-treated helical torsion springs, encased in steel pipe and designed to include overload factor of 25 percent to ensure minimum effort to operate.
  - b. Assembly: Sealed and prelubricated high speed ball bearing at rotating support points. Torsion spring charge wheel for applying spring torque and for future adjustments.
12. Hood: << **ASTM A240/A240M**>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, formed to fit contour of end brackets with reinforced top and bottom edges.

- a. Shape: Square.
  - b. Finish: No.4 satin.
  - 13. Integral Frame: <<ASTM A240/A240M>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, with guides incorporated into jamb design, reinforced by << **12-gauge, 0.1046-inch (2.66 mm)**>> mounting structure.
    - a. Finish: No.4 satin.
  - 14. Sill:
    - a. Manufacturer's standard sheet metal.
      - 1) << **14-gauge, 0.078-inch (1.98 mm)**>> stainless steel.
    - b. Finish: No.4 satin.
    - c. Not required.
  - 15. Manual Operation: << **Hand crank; Push up; or \_\_\_\_\_**>>.
- B. Overhead Door™ Brand; Model 657.
- 1. Slats: Interlocking, roll-formed, metal slats.
  - 2. Width: << \_\_\_\_\_ **feet ( \_\_\_\_\_ mm)**>>.
  - 3. Height: << \_\_\_\_\_ **feet ( \_\_\_\_\_ mm)**>>.
  - 4. Mounting: Between jamb.
  - 5. Door-Only Warranty: One year.
  - 6. Curtain Material: <<ASTM A240/A240M>>, 300 series stainless steel.
    - a. Slat Profile: << **1-1/4 inch (32 mm)**>>, flat.
    - b. Endlocks: Stamped, hot-dip, galvanized endlocks riveted to each end of alternate slats to prevent lateral movement and limit slat deflection and bending stress.
    - c. Finish: No.4 satin.
  - 7. Bottom Bar: 6063-T6 aluminum.
    - a. Finish: Clear anodized.
  - 8. Locking Options to Include: << **Best cylinder; Cylinder; Slide lock; or \_\_\_\_\_**>>.
    - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
    - b. Lock Access: << **Both sides; Coil side; Opposite coil side; or \_\_\_\_\_**>>.
  - 9. Weatherstripping and Seals:
    - a. Bottom Seal Astragal: << **Required; Not required; or \_\_\_\_\_**>>.
    - b. Guide Seal: << **Brush, one-sided; Not required; or \_\_\_\_\_**>>.
  - 10. Brackets: Minimum << **12-gauge, 0.1046-inch (2.66 mm)**>> steel plate to support counterbalance assembly and form end closures. Provide ball bearings at rotating support points. Bolt plates to mounting structures with minimum << **1/4-inch (6 mm)**>> fasteners.
    - a. Material: <<ASTM A240/A240M>>, 300 series stainless steel.
    - b. Finish: No.2B mill finish.
  - 11. Counterbalance Assembly: Steel pipe barrel capable of carrying curtain load with maximum deflection of << **0.03-inch per foot (2.5 mm per m)**>> of door width.

- a. Material: Heat-treated helical torsion springs, encased in steel pipe and designed to include overload factor of 25 percent to ensure minimum effort to operate.
  - b. Assembly: Sealed and prelubricated high speed ball bearing at rotating support points. Torsion spring charge wheel for applying spring torque and for future adjustments.
12. Hood: <<ASTM A240/A240M>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, formed to fit contour of end brackets with reinforced top and bottom edges.
- a. Shape: Square.
  - b. Finish: No.4 satin.
13. Integral Frame: <<ASTM A240/A240M>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, with guides incorporated into jamb design, reinforced by << **12-gauge, 0.1046-inch (2.66 mm)**>> mounting structure.
- a. Finish: No.4 satin.
14. Sill:
- a. Manufacturer's standard sheet metal.
    - 1) << **14-gauge, 0.078-inch (1.98 mm)**>> stainless steel.
  - b. Finish: No.4 satin.
  - c. Not required.
15. Manual Operation: << **Hand crank; Push up; or \_\_\_\_\_**>>.
- C. Overhead Door™ Brand; Model 658.
- 1. Slats: Interlocking, roll-formed, metal slats.
2. Width: << **\_\_\_\_\_ feet ( \_\_\_\_\_ mm)**>>.
3. Height: << **\_\_\_\_\_ feet ( \_\_\_\_\_ mm)**>>.
4. Mounting: Between jamb.
5. Door-Only Warranty: One year.
6. Curtain Material: Galvanized steel.
- a. Slat Profile: << **1-1/4 inch (32 mm)**>>, flat.
  - b. Endlocks: Stamped, hot-dip, galvanized endlocks riveted to each end of alternate slats to prevent lateral movement and limit slat deflection and bending stress.
  - c. Finish:
    - 1) Standard polyester base coat. Color: << **Gray; Tan; White; or \_\_\_\_\_**>>.

- 2) << **PowderGuard Premium powder coat; PowderGuard Textured powder coat; or \_\_\_\_\_**>>. << **Color: \_\_\_\_\_ ; or None - N/A**>>
7. Bottom Bar: Galvanized steel.
    - a. Finish: Gray-primed.
  8. Locking Options to Include: << **Slide lock; Cylinder; Best cylinder; or \_\_\_\_\_**>>.
    - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
    - b. Lock Access: << **Both sides; Coil side; Opposite coil side; or \_\_\_\_\_**>>.
  9. Weatherstripping and Seals:
    - a. Bottom Seal Astragal: << **Required; Not required; or \_\_\_\_\_**>>.
    - b. Guide Seal: << **Brush, one-sided; Not required; or \_\_\_\_\_**>>.
  10. Brackets: Minimum << **12-gauge, 0.1046-inch (2.66 mm)**>> steel plate to support counterbalance assembly and form end closures. Provide ball bearings at rotating support points. Bolt plates to mounting structures with minimum << **1/4-inch (6 mm)**>> fasteners.
    - a. Material: << **ASTM A240/A240M**>>, 300 series stainless steel.
    - b. Finish: No.2B mill finish.
  11. Counterbalance Assembly: Steel pipe barrel capable of carrying curtain load with maximum deflection of << **0.03-inch per foot (2.5 mm per m)**>> of door width.
    - a. Material: Heat-treated helical torsion springs, encased in steel pipe and designed to include overload factor of 25 percent to ensure minimum effort to operate.
    - b. Assembly: Sealed and prelubricated high speed ball bearing at rotating support points. Torsion spring charge wheel for applying spring torque and for future adjustments.
  12. Hood: << **ASTM A240/A240M**>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, formed to fit contour of end brackets with reinforced top and bottom edges.
    - a. Shape: Square.
    - b. Finish: No.4 satin.
  13. Integral Frame: << **ASTM A240/A240M**>>, << **16-gauge, 0.625-inch (1.587 mm)**>> 300 series stainless steel, with guides incorporated into jamb design, reinforced by << **12-gauge, 0.1046-inch (2.66 mm)**>> mounting structure.
    - a. Finish: No.4 satin.
  14. Sill:
    - a. Manufacturer's standard sheet metal.
      - 1) << **14-gauge, 0.078-inch (1.98 mm)**>> stainless steel.
    - b. Finish: No.4 satin.
    - c. Not required.
  15. Manual Operation: << **Push up; Hand crank; or \_\_\_\_\_**>>.

## 2.04 WOOD COILING COUNTER DOORS

- A. Overhead Door™ Brand; Model 665.
  1. Slats: Interlocking wood slats.

2. Width: << **\_\_\_\_\_ feet ( \_\_\_\_\_ mm)**>>.

3. Height: <<        feet (        mm)>>.
4. Mounting: << **Surface-mounted on side indicated on drawings; Between jamb; or \_\_\_\_\_**>>.
5. Opening Speed: Door to operate at variable speed up to << **8 inches (203 mm)**>> per second.
6. Closing Speed: Door to operate at variable speed up to << **12 inches (305 mm)**>> per second.
7. Available Warranty:
  - a. Door-Only Warranty: One year.
8. Curtain Material: Wood; endlocks attached to alternate slats maintain curtain alignment and prevent lateral slat movement.
  - a. Slat Profile: << **1-3/4 inches (16 mm)**>> high by << **1/2 inch (13 mm)**>> thick.
  - b. Wood Species: << **Birch; Douglas fir; Red oak; White oak; or \_\_\_\_\_**>>.
  - c. Finish: Unfinished.
9. Bottom Bar: Wood to match curtain.
10. Locking Options to Include: << **Cylinder.; Best cylinder.; \_\_\_\_\_.; or None - N/A**>>
  - a. Lock Locations: << **Both jambs; Left jamb only; Right jamb only; or \_\_\_\_\_**>>.
  - b. Lock Access: << **Coil side; Opposite coil side; or \_\_\_\_\_**>>.
11. Side Guides, Channels: Constructed of wood to match curtain.
12. Brackets: Galvanized steel to support counterbalance assembly and curtain, covered with wood to match curtain.
13. Counterbalance Assembly: Helical-torsion-spring type, housed in steel tube or pipe barrel and supporting curtain with deflection limited to << **0.03 inch per foot (2.5 mm per m)**>> of span; adjustable spring tension required.
14. Hood: << **Not required; Wood; or \_\_\_\_\_**>>.
  - a. Finish: Match curtain.
15. Manual Operation: << **Push up; Hand crank; or \_\_\_\_\_**>>.
  
16. Motor Operation: Provide UL-listed electric operator; size as recommended by manufacturer to move door in either direction minimum << **8 inches (203 mm)**>> and maximum << **12 inches (305 mm)**>> per second.
  - a. Manual Override: Crank.
  - b. Operation Supply Voltage: << **115/208/230 V, 1-phase, 60 Hz; 208/230/460 V, 3-phase, 60 Hz; 220 V, 1-phase, 50 Hz; 220 V, 3-phase, 50 Hz; 400 V, 3-phase, 50 Hz; 575 V, 3-phase, 60 Hz; or \_\_\_\_\_**>>.
  - c. Actuation: Provide push button.
  - d. Motor Mounting: Within door coil.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify adjacent construction is suitable for door installation.
- B. Verify electrical services have been installed and are accessible.
- C. Verify door opening is plumb, header is level, and dimensions are correct.
- D. Notify <<Architect>> of unacceptable conditions or varying dimensions.
- E. Commencement of installation indicates acceptance of substrate and door opening conditions.

### **3.02 INSTALLATION**

- A. Install units 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.; \_\_\_\_\_ .; or None - N/A>>
- D. Fit and align assembly including hardware; level and plumb to provide smooth operation.
- E. Coordinate installation of electrical service; see Section << 260583>>.
- F. Complete wiring from disconnect to unit components.
- G. Complete wiring from fire alarm system.
- H. Install perimeter trim as shown on drawings.

### **3.03 TOLERANCES**

- A. Maintain dimensional tolerances and alignment with adjacent work.
- B. Maximum Variation from Plumb: << 1/16 inch (1.5 mm); or \_\_\_ inch (\_\_\_ mm)>>.
- C. Maximum Variation from Level: << 1/16 inch (1.5 mm); or \_\_\_ inch (\_\_\_ mm)>>.
- D. Longitudinal or Diagonal Warp: Plus or minus << 1/8 inch per 10 feet (3 mm per 3 m); or \_\_\_\_\_ inch per 10 feet (\_\_\_ mm per 3 m)>> straight edge.

### **3.04 ADJUSTING**

- A. Adjust operating assemblies for smooth and noiseless operation.

### **3.05 CLEANING**

- A. See Section << 017000 - Execution and Closeout Requirements>> for additional requirements.
- B. Clean installed components.
- C. Remove labels and visible markings.

**END OF SECTION**