

SECTION 083313
COILING COUNTER DOORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

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

1.2 RELATED REQUIREMENTS

- A. Section 07 9200 - Joint Sealants: Sealing joints between frames and adjacent construction.
- B. Section 08 7100 - Door Hardware: Cylinder cores and keys.
- C. Section 09 2216 - Non-Structural Metal Framing.

1.3 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.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3300.
- 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. Installation methods.
- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Operation and Maintenance Data.
- F. warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

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- B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience

1.6 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.

1.7 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer warranty for counterbalance shaft assembly for years indicated under individual doors. Complete forms in City of Torrance name and register with manufacturer. Contractor to verify the owner name.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. OVERHEAD DOOR CORPORATION; WWW.OVERHEADDOOR.COM; 1 (800) 929-3667.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 3300.

2.2 METAL COILING COUNTER DOORS WITH INTEGRAL FRAME AND SILL

- A. Overhead Door™ Brand; Model 655.
 - 1. Slats: Interlocking, roll-formed, metal slats.
 - 2. Width: 6 feet. Contractor to field verify prior to ordering.
 - 3. Height: 4 feet, 8 inches. Contractor to field verify prior to ordering.
 - 4. Mounting: Between jamb.
 - 5. Door-Only Warranty: One year.
 - 6. Curtain Material: 0.040-inch aluminum.
 - a. Slat Profile: 1-1/4 inch, 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: Clear anodized.
 - 7. Bottom Bar: 6063-T6 aluminum.

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- a. Finish: Clear anodized.
- 8. Locking Options to Include: Best cylinder.
 - a. Lock Locations: Right jamb only.
 - b. Lock Access: Coil side.
- 9. Weatherstripping and Seals:
 - a. Bottom Seal Astragal: Required.
 - b. Guide Seal: Brush, one-sided.
- 10. Brackets: Minimum 12-gauge, 0.1046-inch 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 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 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 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 300 series stainless steel, with guides incorporated into jamb design, reinforced by 12-gauge, 0.1046-inch mounting structure.
 - a. Finish: No.4 satin.
- 14. Sill:
 - a. Manufacturer's standard sheet metal.
 - 1. 14-gauge, 0.078-inch stainless steel.
 - b. Finish: No.4 satin.
 - c. Not required.
- 15. Manual Operation: Hand crank.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify adjacent construction is suitable for door installation.
- B. Verify door opening is plumb, header is level, and dimensions are correct.
- C. Notify city project manager of unacceptable conditions or varying dimensions.
- D. Commencement of installation indicates acceptance of substrate and door opening conditions.

3.2 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 and new wall framing.
- D. Fit and align assembly including hardware; level and plumb to provide smooth operation.
- E. Install perimeter trim as shown on drawings.

3.3 TOLERANCES

- A. Maintain dimensional tolerances and alignment with adjacent work.
- B. Maximum Variation from Plumb: 1/16 inch.
- C. Maximum Variation from Level: 1/16 inch.
- D. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch per 10 feet straight edge.

3.4 ADJUSTING

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

3.5 CLEANING

- A. See Section 01 7704 - Closeout Procedures and Training for additional requirements.
- B. Clean installed components.
- C. Remove labels and visible markings.

END OF SECTION