



LINKSGUARD CHAIN CLOSURES

PART 1: GENERAL

1.1 SECTION INCLUDES

- A. LinksGuard 2000 Series Chain Closure
- B. LinksGuard 1000 Series Chain Closure
- C. Dock Gate Series Chain Closure

1.2 REFERENCES

- A. ASTM B221-Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shaped and Tubes.
- B. ASTM A500-Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes
- C. ASTM A36-Standard Specification for Carbon Structural Steel

1.3 SUBMITTALS

- A. Submit under provision of Section 01300.
- B. Product Data: Provide manufacturer's descriptive literature for specified chain closure, including specified options
- C. Shop Drawings: Submit for approval the following:
 - 1. Shop drawing including plan and elevation dimensions of openings for chain closures, track mounting configuration and part list for specified product.
- D. Samples: Paint chips representing manufacturer's full range of available colors for optional painted chain closures.
- E. Quality Assurance Submittals
 - 1. Certificates
 - a. Contractor's certification that manufacturer meets specified qualifications.
 - b. Installer meets specified qualifications.
 - 2. Manufacturer's Instructions: Printed installation instructions for each product.

1.4 QUALITY ASSURANCE

A. Qualifications:

1. Chain closure will be manufactured in an ISO 9001 Certified facility with 20 years of documented experience producing products specified in this section.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store products of this section indoors and protect from moisture in the manufacturer's unopened packaging until installation.
- B. Maintain storage area conditions for products of this section until installation.

1.6 PROJECT/SITE CONDITIONS

- A. Field Measurement: Take field measurements of opening to receive chain closure; note discrepancies on submitted shop drawings.

PART 2: PRODUCTS

2.1 MANUFACTURER

- A. Provide chain closures manufactured by R·O·M Corporation, 6800 East 163rd Street, Belton, MO 64012. ASD Tel: (800)-827-3692 or (816) 318-8000, Fax: (813) 318-8100.
- B. Requests for substitution will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not Permitted.

2.2 LINKSGUARD 2000 SERIES CHAIN CLOSURE

- A. Provide LinksGuard 2000 series Chain Closure.
 1. Operation: Single-direction opening
 - (a) Closing channel equipped with concealed latching hardware.
 - (b) Stationary channel for permanent attachment to jamb for opening stacking.
 - (c) Stopping, stopping with plate, or plater channel for concealment with pocket stacking.
 2. Operation: Bi-parting center opening
 - (a) Pair of Bi-parting center channels each equipped with concealed latching hardware.
 - (b) Stationary channel for permanent attachment to jamb for opening stacking.
 - (c) Stopping or plater channel for concealment with pocket stacking.
 3. Opening size: Indicated on drawings
 4. Gate size: Indicated on drawings
 5. Chain mesh: Number 9, 0.148" metal diameter link, steel chain in 4 5/8" square mesh pattern.
 6. Channels: Extruded Aluminum Alloy 6063, T6, ASTM B211; 2 1/2" x 1" profile with material thickness of 1/8" on face and 3/16" on legs. A snap-on cap if the same material with material thickness of 1/8" completes a channel that extends from an overhead track to within 3/4" of the finished floor.
 7. Intermediate channels with snap-on caps are located 6-8 foot intervals along closure.
 8. Latching hardware: located for operation with locks inside or outside of chain closure.
 - (a) Key-operated mortise lock cylinder with interchangeable locks (IC) supplied with (2) keys per lock.

- (b) Operating handle: Cast aluminum.
- (c) Drop bolt: 1/2" diameter zinc plated steel rod extending below finished floor when engaged, concealed in the channel.
- (d) Upward acting spring pin engaging in channel stop mounted on track.
- (e) Cam-type latch engaging jamb-mounted strike, concealed in channel.
- (f) Cam-type latch engaging meeting bi-parting channel strike, concealed in channel.
- (g) Floor socket and plate, with spring-loaded dust seal.
- 9. Emergency exit hardware: For disengaging trailing end channel, accessible only from secured side of chain closure.
- 10. Closure finish: Electroplated zinc chain with mill finish aluminum channels.
- 11. Closure finish: Powder coated colored finish Color: _____
- 12. Closure finish: Clear protective polyester coating

B. Overhead Track

- 1. Beam section: Extruded Aluminum Alloy 6063, T6, ASTM B211; 2" wide X 2 5/8" high.
- 2. Curved track sections: Radii and degrees of arcs indicated on drawings.
- 3. Track brackets for chain closure face-mounted inside an opening
- 4. Track brackets for chain closure face-mounted outside an opening.
- 5. Finish Mill.
- 6. Finish: Powder coated colored finish. Color: _____
- 7. Finish: Clear protective polyester coating

C. Channel carriers: Cast Aluminum-Magnesium alloy with nylon rollers.

D. Track mounting hardware: Recommended type and sizes indicated in manufacturers' installation instructions.

2.3 LINKSGUARD 1000 SERIES CHAIN CLOSURE

A. Provide LinksGuard 1000 series Chain Closure.

- 1. Operation: Single-direction opening
 - (a) Closing channel equipped with concealed latching hardware.
 - (b) Stationary channel for permanent attachment to jamb.
- 2. Operation: Bi-parting center opening
 - (a) Pair of Bi-parting center channels each equipped with concealed latching hardware.
 - (b) Stationary channel for permanent attachment to jamb.
- 3. Opening size: Indicated on drawings
- 4. Gate size: Indicated on drawings
- 5. Chain mesh: Number 9, 0.148" metal diameter link, steel chain in 4 5/8" square mesh pattern.
- 6. Channels: Extruded Aluminum Alloy 6063, T6, ASTM B211; 2 1/2" x 1" profile with material thickness of 1/8" on face and 3/16" on legs. A snap-on cap if the same material with material thickness of 1/8" completes a channel that extends from an overhead track to within 3/4" of the finished floor.
- 7. Latching hardware: located for operation with locks inside or outside of chain closure.
 - (a) Key-operated mortise lock cylinder with interchangeable locks (IC) supplied with (2) keys per lock.
 - (b) Operating handle: Cast aluminum.
 - (c) Drop bolt: 1/2" diameter zinc plated steel rod extending below finished floor when engaged, concealed in the channel.

- (d) Upward acting spring pin engaging in channel stop mounted on track.
- (e) Cam-type latch engaging jamb-mounted strike, concealed in channel.
- (f) Cam-type latch engaging meeting bi-parting channel strike, concealed in channel.
- (g) Floor socket and plate, with spring-loaded dust seal.
- 8. Closure finish: Electroplated zinc chain with mill finish aluminum channels.
- 9. Closure finish: Powder coated colored finish Color:_____
- 10. Closure finish: Clear protective polyester coating

B. Overhead Track:

- 1. ASTM A500 Grade B galvanized pipe 1 5/16" x Number 12.
- 2. Pipe mounting steel casting: zinc plated

C. Channel carriers: Cast Aluminum-Magnesium alloy with steel roller.

D. Track mounting hardware: Recommended type and sizes indicated in manufacturers' installation instructions.

2.4 DOCK GATE SERIES CHAIN CLOSURE

A. Provide Dock gate series Chain Closure.

- 1. Operation: Single-direction opening
 - (a) Closing channel equipped with padlock acceptable latching hardware.
 - (b) Stationary channel for permanent attachment to jamb.
- 2. Operation: Bi-parting center opening
 - (a) Pair of Bi-parting center channels each equipped with padlock acceptable latching hardware.
 - (b) Stationary channel for permanent attachment to jamb.
- 3. Opening size: Indicated on drawings
- 4. Gate size: Indicated on drawings
- 5. Chain mesh: Number 6, 0.192" metal diameter link, steel chain in 7" x 9" pattern.
- 6. Channels: ASTM A36 zinc plated steel channel with a 2" x 1" profile and 1/8" material thickness.
- 7. Padlock acceptable hardware: Zinc plated casting of steel or aluminum-magnesium.

B. Overhead Track:

- 1. ASTM A500 Grade B galvanized pipe 1 5/16" x Number 12.
- 2. Pipe mounting steel casting: Zinc plated

C. Channel carriers: Cast Aluminum-Magnesium alloy with steel roller.

D. Track mounting hardware: Recommended type and sizes indicated in manufacturers' installation instructions

PART 3: EXECUTION

3.1 EXAMINATION

A. Verification of Conditions:

- 1. Openings are correct size in accordance with shop drawings.

2. Openings are prepared to receive chain closure components.

B. Installer's Examination:

1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
2. Transmit two copies of installer's report to architect within 24 hours of receipt.
3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
4. Beginning construction activities of this section indicated installer's acceptance of conditions.

3.2 PREPARATION

- A. Protect adjacent surfaces while performing construction activities of this section to prevent damage to adjacent material or finishes.

3.3 INSTALLATION

- A. Install chain closure components in accordance with shop drawings and manufacturer's instructions.

3.4 ADJUSTING

- A. Chain closure should travel smoothly the full run of the track. Adjust latching hardware on channels to function correctly.

3.5 CLEANING

- A. Clean sight-exposed surfaces that are soiled in accordance with manufacturer's recommendations.

3.6 DEMONSTRATION

- A. Demonstrate operation of chain closure to owner or designated personnel.

3.7 PROTECTION

- A. Protect products of this section from damage caused by subsequent construction until substantial completion.
- B. Repair damaged or defective products in accordance with manufacturer's recommendations.
- C. Replace damaged or defective products, which cannot be repaired to Architect's acceptance.

END OF SECTION