

SECTION 05515

EXIT LADDER DEVICES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Retractable exit ladders for use as supplemental escape devices.
- B. Retractable ladder devices to provide access to mechanical equipment.
- C. Access balconies.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete.

1.3 REFERENCES

- A. Evaluation Reports; Building Officials and Code Administrators International, Inc. (BOCA).
- B. Evaluation Reports; International Conference of Building Officials (ICBO).
- C. Uniform Building Code; International Conference of Building Officials (ICBO).
- D. Uniform Fire Code; International Conference of Building Officials (ICBO).
- E. Uniform Mechanical Code; International Conference of Building Officials (ICBO).
- F. Uniform Building Code Standards; International Conference of Building Officials (ICBO).
- G. Underwriters Laboratories Inc. (UL).

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide manufacturer's standard details and catalog data demonstrating compliance with referenced standards. Provide installation instructions.
- C. Shop Drawings:

1. Submit drawings showing overall height of ladders, and location of deployment handles in relation to floor elevations, window sills, and railings.
2. Submit drawings illustrating layout and anchorage of balconies.

D. Warranty: Submit manufacturer's standard warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products indoors and protect from moisture, construction traffic, and damage.

1.6 WARRANTY

- A. Manufacturer's standard warranty against defects in materials and workmanship; 10 year period.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Provide products fabricated by Jomy Safety Products, Inc.; 1728 16th St.; Suite 201; Boulder, CO 80302; ASD. Tel: 303-440-9007 (800-255-2591), Fax: 303-440-9091.

2.2 MATERIALS

- A. Stiles: Extruded aluminum, 6063-T6 alloy.
- B. Rungs: Extruded aluminum, 6005-T5 and 6005-T6 alloy.
- C. Brackets: 6063-T6 aluminum alloy.
- D. Balcony: 6063-T6 aluminum alloy.
- E. Pivot Pins, Springs, Masonry Bolts, Fasteners, and Base Plates: Stainless steel.

2.3 LADDERS

- A. General:
 1. Retractable ladder with deployment handles at each point of access; stainless steel counterbalance springs; requiring less than five pounds of force to deploy.

2. Maintenance-free, aluminum and stainless steel construction.
 3. Support 1000 lbs. per rung individually; 200 lbs. per 6 feet of length simultaneously.
 4. Ground support of gravity loads; building wall support for lateral stability.
 5. Provide deployment handle at each access level.
- B. Certifications:
1. Exit ladder device: UBC Std. 33-3.
 2. Supplementary means of egress: Underwriters Laboratories Inc.
 3. Supplemental escape device: Accepted under BOCA and ICBO evaluation reports for use up to 30 feet under appendices of Uniform Building Code and Uniform fire Code.
 4. Mechanical equipment ladder: Accepted under ICBO evaluation reports in compliance with Uniform Mechanical Code.
- C. Provide dual safety rails at ladders with access from both sides.
- D. Provide reinforcement channel where ladders extend beyond wall support, such as at parapets and roof tops, or where ladder spans open areas in excess of 5 feet between attachment points.
- E. Shop fabricate and assemble to maximum extent practicable for installation on-site with minimal labor.
- 2.4 BALCONIES
- A. Provide aluminum balconies at each access level.
 - B. Provide aluminum balconies at locations indicated on the drawings.
 - C. Size: 24 x 42 inches, nominal.
 - D. Size: 38 x 42 inches, nominal.
 - E. Size: Custom size as indicated on the drawings.
 - F. 42-inch rail 2 sides, restraining chain 1 side.
 - G. Capacity: 1000 lbs. per sq. meter.

2.5 ACCESSORIES

- A. Provide brackets, spacers, etc., necessary for a complete installation.
- B. Provide removable deployment handle at lower access point; provide locking hub and padlock.
- C. Fasteners for securement to wood construction: Stainless steel lag bolts; 3/8-inch diameter, 4-inch minimum embedment.
- D. Fasteners for securement to steel construction: Stainless steel bolts, nuts, and washers; 3/8-inch diameter.

2.6 FINISHES

- A. Aluminum: Clear anodized.
- B. Manufacturer's standard shop-applied enamel.
 - 1. Color: As selected from manufacturer's standards.
 - 2. Color: Match paint sample supplied by Architect.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that wall surfaces to receive units are complete and approved prior to installing work of this section.

3.2 FOOTING

- A. Install concrete footing in accordance with manufacturer's requirements, and in compliance with Section 03300.

3.3 INSTALLATION

- A. Install components in strict compliance with manufacturer's instructions.

3.4 ADJUST AND CLEAN

- A. Adjust operating parts for smooth deployment and storage.
- B. Remove scraps and debris; leave project site in clean and orderly condition.
- C. Instruct the Owner's representative in proper operation.

END OF SECTION