



SECTION 11160

LOADING DOCK EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Loading dock equipment of the following types:
 - 1. Dock levelers.
 - 2. Vehicle restraints.
 - 3. Dock seals.
 - 4. Dock shelters.
 - 5. Dock lifts.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Coordination with dock construction.
- B. Section 16050 - Basic Electrical Methods and Materials: Coordination with power requirements and controls/safety circuits.

1.3 REFERENCES

- A. American National Standards Institute (ANSI): ANSI MH29.1 Safety Requirements for Industrial Scissor Lifts.

1.4 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. Installation methods.
- C. Shop Drawings: Showing overall dimensions (width, height) and location of electrical service panels and motor locations. Supporting construction requirements and equipment structural attachment. Operating range and required clearances.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Providing sole source for design, engineering, manufacturing and warranty claims handling. Company specializing in manufacturing products specified with a minimum 20 years experience.
- B. Installer Qualifications: Trained, certified and approved by manufacturer, with documented experience on similar projects.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.7 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 recommended limits.

1.8 WARRANTY

- A. Warranty: Provide manufacturer's standard warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Pentalift Equipment Corp., which is located at: 21 Nicholas Beaver Rd. ; Guelph, ON, Canada N1H 6H9 ; Tel: 519-763-3625; Fax: 519-763-2894; Email: [request info \(dock@pentalift.com\)](mailto:request_info@dock@pentalift.com); Web: www.pentalift.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

Mechanical Edge of Dock Leveler:

1. Product: EDML Mechanical Edge of Dock Leveler as manufactured by Pentalift Equipment Corporation.
2. Leveler(s) shall be mounted to the face of the dock. Leveler(s) shall be operated by the easy lifting activating lever with torsion spring assistance.
3. The nominal lip length shall be 15 inches (381 mm). The lip hinge shall be full width piano style with a full width hinge pin. The lip plate shall be made from high tensile steel construction and be designed to project 11-1/2 inches (292 mm) beyond the face of the dock bumpers. After the truck / trailer departs, leveler(s) shall automatically return to the stored position. Leveler(s) shall be equipped with a lip extension latch to ensure the lip is extended fully.
4. When not in use, the activating lever shall store safely at the side of the deck.
5. Two molded rubber bumpers and two steel bumper blocks shall be provided to achieve an overall projection of 16 inches (406 mm).
6. Leveler(s) shall have Pentalift gray finish.
7. Model EDML66: 66 inches width (96 inches overall width) by 27.5 inches span (1676 mm (2438 mm) by 699 mm).
8. Model EDML72: 72 inches width (102 inches overall width) by 27.5 inches span (1829 mm (2591 mm) by 699 mm).
9. Model EDML78: 78 inches width (108 inches overall width) by 27.5 inches span (1981 mm (2743 mm) by 699 mm).
10. Model EDML84: 84 inches width (114 inches overall width) by 27.5 inches span (2134 mm (2896 mm) by 699 mm).
11. Capacity: 20000 lb (9072 kg).
12. Capacity: 25000 lb (11340 kg).
13. Capacity: 30000 lb (13608 kg).
14. Provide pour-in place installation style.
15. Provide pit style installation.
16. Provide top lag plate.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. 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.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION