



## 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](http://www.pentalift.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### Vehicle Restraint Safety System:

1. Product: Model LPR35 Vehicle Restraint Safety System as manufactured by Pentalift Equipment Corporation.
2. Vehicle restraint(s) shall be a non-impact design with an operating range of 8-3/4 inches to 26 inches (222 mm to 660 mm) and a restraining capacity of 35,000 lb (15876 kg).
3. Operation shall be electro-hydraulic with a remote power unit. Controls shall be a remote, wall mounted control station.
4. The power supply shall be \_/\_/\_.
5. The design shall a heavy-duty, removable steel guard. Stepped hook arrangement providing dual locking positions.
6. External limit switches shall be water resistant. Vehicle restraint(s) shall be supplied with a high-visibility, two-way communication system. Internally, there shall be a three light display (red/amber/green) and an instruction sign. Dual image caution signs and an LED style outside deluxe lights (red/green) shall be supplied for external installation. Vehicle restraint(s) shall have an audible alarm to signal when the restraint does not engage the truck/ trailer's R.I.G.
7. Vehicle restraint(s) to have Pentalift gray finish.
8. Provide weld plate for cast in concrete installation.
9. Provide cantilever /extension mounting plate.
10. Provide zinc plating.
11. Provide power failure release.
12. Provide interlock to other loading dock equipment.

## 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