



## Architectural Specification

### Nordock TRUCK-LOCK®Series – Model ATL-400 Automatic Vehicle Restraint

#### SECTION 11161 VEHICLE RESTRAINTS

##### PART 1 - GENERAL

##### 1.01 WORK INCLUDED

- A. Factory assembled vehicle restraint
- B. Control panel and communication system.
- C. Installation and Owner's Manual.

##### 1.02 RELATED WORK

- A. Section 11160 – Dock Levelers
- B. Section 11164 - Seals and Shelters.
- D. Section 11165 - Dock Bumpers.

##### 1.03 SYSTEM DESCRIPTION

- A. Vehicle restraint provided to the following requirements:
  - 1. Restraint shall engage and restrain variable height rear impact guards.
  - 2. Standard service range of 9" to 30" from ground.
  - 3. Communication system shall have red and green lights and instruction signs inside and outside.
  - 4. Restraint shall maintain engagement during loading.
  - 5. Activation shall be with push button controls for engage and disengage functions.
  - 6. Restraint shall be stored down for unobstructed positioning of trailer.

##### 1.05 SUBMITTALS

- A. Submit Manufacturer's installation instructions.
- B. Submit shop drawings showing layout, conduit positions and wiring schematics.

## PART 2 PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS

- A. TRUCK-LOCK Series - Model ATL-400 as manufactured by Nordock Inc.

### 2.02 EQUIPMENT

- A. Cast in Plate (Optional): 3/8" steel plate with concrete anchors poured into dock face for welded installation of restraint.
- B. Vehicle Restraint:
  - 1. Vertical Frame: Mounting plate of 3/8" steel and vertical track of 1/2" steel suitable for welding to cast in plate or bolted to dock face with 5/8 " concrete wedge anchors.
  - 2. Barrier: Large combination steel barrier and housing to enclose and protect all lift components. Barrier to be guided in vertical track through entire travel.
  - 3. Actuator: Hydraulic cylinder to raise barrier from stored position with spring loaded hydra-float system to secure and maintain contact with rear impact guard of trailer during all loading and unloading operations.
  - 4. Inside Communication System: Either a Green light to indicate when vehicle is restrained and verified by attendant or a Red light to indicate that vehicle is not restrained or when restraint is stored. Include label to instruct dock attendant.
  - 5. Outside Communication System: Red light to indicate when restraint is not in stored position. Green light to indicate restraint is stored in low profile position leaving a clear path for a vehicle to enter or leave the dock. Include sign to instruct Truck Driver.
  - 6. Controls: All controls to be in a NEMA 12 Dust Tight Enclosure. Power source requirement is 115 volt, single phase with a 15 amp service circuit.
  - 7. Finish: All structural steel components to be zinc plated including barrier, housing, vertical frame and lift mechanism.
- C. Options:
  - 1. LED light system for improved visual communication.
  - 2. Interconnect to disallow use of powered dock leveler until attendant confirms the trailer is restrained.
  - 3. Dock leveler stored interlock to disallow restraint storage until leveler is removed from truck bed.

## PART 3 EXECUTION

### 3.01 PREPARATION

- A. Provide cast in plate for setting in front wall. (Optional)

### 3.02 INSTALLATION

- A. Inspect site conditions and report anything detrimental to the proper installation and performance of vehicle restraint. Do not proceed until unsatisfactory conditions have been corrected.
- B. Manufacturer's representative shall install vehicle restraint in accordance with manufacturer's instructions and recommendations.
- C. Adjust installed unit for operation as specified by manufacturer.
- D. Manufacturer's representative to examine finished installation to ensure proper operation and demonstrate proper use of the restraint to the owner.