

# STR-4200 Trailer Stabilization Device

VEHICLE RESTRAINTS – 11160

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## PART 1 - GENERAL

- 1.1 TRUCK RESTRAINING DEVICE, tested and certified to ANSI MH30.3 standard, shall be manufactured by the same manufacturer as the dock leveler. Truck Restraint shall have the following features:
  - 1.1.1 Vehicle restraints shall have a manufacturer's warranty that covers defects in materials or workmanship, including all material, labor, tax and freight for a period of 5 years from date of shipment.
  - 1.1.2 Corrosive resistant finish, per ASTM B117 salt spray testing standard, protects inside and outside of steel housing.
  - 1.1.3 Vehicle restraint shall have a lowered service range of 9".
  - 1.1.4 Flashing red and green lights with sun visors on outside lights. Light box shall have maximum projection from wall of 4".
  - 1.1.5 Signs: Two (2) outside, reading "Back In or Pull Out On Green Only", one reading "Forward"; one "Backward"; one inside reading "Enter On Green Only".
  - 1.1.6 Visual flashing red light both inside and outside and audible alarm shall sound when abnormal hooking position exists or when no rear impact guard is present.
  - 1.1.7 Vehicle restraint control panel shall have continuous flashing LEDs to monitor the outside communication lights.
  - 1.1.8 Control panel shall have self-diagnostics for testing all input and output functions.
  - 1.1.9 Coded alarm override shall allow communication via the lighting system and an audible alarm when abnormal hooking position exists or no rear impact guard is present. Override will turn off audible alarm and leave outside light Red with inside lights simultaneously Red and Green, indicating abnormal condition. Touch pad shall not function until code is reentered to turn override off.
  - 1.1.10 Off-guard mounting position with automatic adjustment of restraint housing to variable rear impact guard heights. Construction of vehicle restraint housing shall have a maximum height of 9" to allow the service of trailers with RIGs as low as 9". No motors shall be required to position the restraint to reach proper engagement level for variable rear impact guard heights. Position of rotating hook shall therefore be in the same position in relation to variable rear impact guard heights prior to activation.
  - 1.1.11 Large, rotating, yellow zinc dichromate steel hook for visibility.

- 1.1.12 Hook arrangement shall be maintained throughout every phase of the loading/unloading process, including below dock end loading.
- 1.1.13 All individual control box components, as well as complete control box, shall be UL approved.
- 1.2 TRAILER STABILIZING DEVICE shall be manufactured by the same manufacturer as the dock leveler. Trailer Stabilizing Restraint shall have the following features:
  - 1.2.1 Restraint shall help support vertical movement of trailer.
  - 1.2.2 Restraint shall allow for no more than 2" of drop at a gross load of 35,000 lbs.
  - 1.2.3 Restraint shall have two hydraulic cylinders.

**PART 2 - EXECUTION**

- 2.1 INSTALLER shall examine the substrate and conditions under which truck restraints are to be installed and notify the A/E and Contractor in writing of any conditions detrimental to the proper and timely completion of work. Do not proceed with the work until satisfactory conditions have been corrected in a manner acceptable to the installer.
  - 2.1.1 ADJUST UNITS to operate smoothly.
- 2.2 TRUCK RESTRAINING DEVICE MANUFACTURER'S REPRESENTATIVE shall install Truck Restraining Device in accordance with approved shop drawings and manufacturer's recommendations. Location of truck restraining device shall be indicated on drawings. Exact locations of signs, lights and control boxes for the truck restraining devices shall be approved by the A/E.
  - 2.2.1 Device shall be welded to an embedded steel plate per manufacturer's specifications or anchored to the dock face by a combination of up to 10 anchor bolts plus 22" of weld to the dock curb angle. In addition, 2 anchors are to be mounted to the concrete truck approach.
  - 2.2.2 All operator controls shall be mounted in a gasketed control panel.
- 2.3 AFTER INSTALLATION is completed, a representative of the manufacturer shall examine the installation and require that all connections and adjustments necessary to assure proper operation of truck restraining devices be made. Before acceptance, a demonstration shall be conducted in the presence of the Owner's representative that dock levelers and truck restraining devices operate properly in every respect. In addition, a detailed user/operator training session shall be conducted at a time and place agreed upon by owner's representative.
- 2.4 A representative of the manufacturer shall provide a twelve (12) month money back guarantee of satisfaction in writing.