

# PowerStop® Manual Vehicle Restraint

## Specification Sheet & Submittal

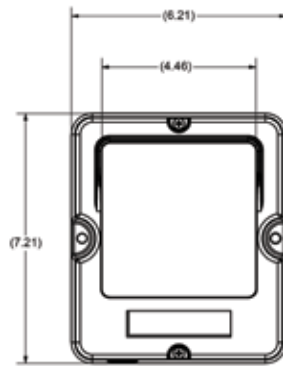
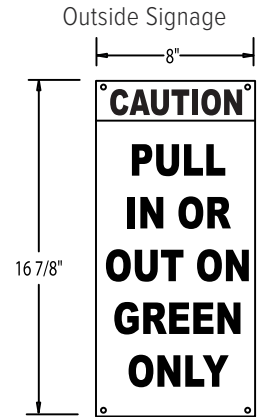
Shown to the right are Control Panels, Lights and Signs that are part of the Optional Dock Alert or upgraded iDock Alert Communication Systems



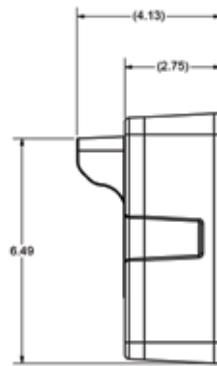
Optional Upgraded iDock Alert  
(Size varies with options)



Optional Dock Alert  
(Size varies with options)



OSLA (Outside Light Assembly)



Inside Signage



### Standard Features

Manually-activated restraint	Optional Dock Alert light communication
Low profile, non-impact design (wall or driveway mount)	Optional upgraded iDock® 2.0 Controls with dynamic message display
Restraining force in excess of 32,000 lbs.	Optional iDock 2.0 Controls connected online with optional myQ® Enterprise
Zinc-plated unit provides high corrosion resistance	Designed and manufactured in the USA
RIG sensor bar with optional audible alarm on MAL	

### General Description

All Poweramp® Manual PowerStop® (PowerStop (M)) vehicle restraints are designed to secure a cargo trailer's Rear Impact Guard (RIG) to reduce the likelihood of premature trailer separation during the loading/unloading process. The exclusive PowerStop vehicle restraint features a complete mechanical restraint mechanism, activation rod and storage bracket, along with communication signage. An optional Dock Alert or upgraded iDock Alert Communication System, including iDock inside control panel and exterior communication lights, is also available.

### Exterior Lights



The PowerStop (M), PowerStop (MML), and PowerStop (MAL) vehicle restraint are available as a stand alone unit or combined electrically with your dock leveler selection. Electrical requirements for PowerStop (MML) and PowerStop (MAL) are 115v single phase installed in a NEMA 12 enclosure for Dock Alert and NEMA 4X enclosure for iDock Alert. All electrical control panel components, connections and wiring are UL listed/recognized. Please Note: Unless specifically noted on quotation, all electrical requirements, including mounting of control box, outside lights and signs, are the responsibility of others.

## Construction

The PowerStop® (M) restraint system is designed to be a stationary mount, non-impact device, permanently mounted to loading dock foundation or drive approach. Restraint shall be preserved in a zinc finish for all weather protection. Restraint arm shall be preserved in a highly visible zinc dicromate finish that is highly resistant to corrosion and protected by a bellow style cover to eliminate the accumulation of debris. Once activated, the PowerStop (M) extends upward to the RIG. The uniquely designed restraint arm secures the trailer with over 32,000 lbs. of pull-out force. The PowerStop (M) is affordable and easy to install. It is ideal for all manufacturing, warehouse and distribution applications.

## Hooking Range & Capacity

The PowerStop® restraint can withstand a pulling force in excess of 32,000 lbs., giving an added margin of safety and protection. Maximum operational range is 10" horizontally from face of dock bumpers, and 12" minimum to 29¼" maximum vertically. Additional ranges are available for certain applications.

## Operation

**PowerStop (M) - Restraint Only** Once trailer is parked tight against dock bumpers, the dock attendant inserts one end of the operating bar under the release lever on the right hand side of the restraint and lifts up, activating the restraint. The spring loaded float assembly allows the restraint arm to move up and down with the RIG during the loading process. Dock attendant should visually inspect and confirm that the restraint has traveled vertically and has engaged the horizontal member of the RIG. The operating bar can then be returned to its storage bracket. Dock leveler may be activated and loading/unloading may begin. When loading/unloading is complete and the dock leveler is returned to its stored position, the operating bar is inserted into the top of the slide track on the restraint. The restraint arm is pushed down until the release lever locks the restraint arm. Operating bar is returned to its storage bracket.

### PowerStop (MML) - PowerStop (M) with Manual Light Communication System

Adding an optional simple Dock Alert or upgraded Manual iDock Alert communication system to the PowerStop (M) establishes a clear line of communication between truck drivers and dock personnel. At the beginning and end of a loading cycle, the dock attendant presses the Dock Alert status button. A flashing red light on the interior panel warns the dock attendant conditions are not safe for loading/unloading, while a flashing green light on the exterior wall indicates the truck is cleared to approach or depart the dock. Once the restraint has been activated and the dock attendant confirms the restraint arm has engaged the RIG, the dock attendant presses the Dock Alert status button to change the exterior light to red, warning the driver not to pull away, while the interior light will be flashing green, indicating safe conditions and to proceed with the loading/unloading.

### PowerStop (MAL) - PowerStop (M) with Automatic Light Communication System

Adding the automatic Dock Alert or upgraded Automatic iDock Alert communication system to the PowerStop (M) establishes a clear line of communication between truck drivers and dock personnel. When the restraint arm is in the stored position, the exterior

light will flash green indicating the truck is clear to approach or depart the dock while the interior light flashed red warning the dock attendant conditions are not safe for loading/unloading. Once the restraint has been activated, and the dock attendant confirms the restraint arm has engaged the RIG, the dock controller will automatically change the interior light to green and exterior light to red. If the restraint is not securely engaged to the trailer's RIG, the inside light will change to red and an optional audible alarm will sound. In the bypass position, the system will communicate the fault condition on the message display, if iDock is installed, and by flashing an amber caution light.

## Electrical

The PowerStop (M), PowerStop (MML), and PowerStop (MAL) vehicle restraint are available as a stand alone unit or combined electrically with your dock leveler selection. Electrical requirements for PowerStop (MML) and PowerStop (MAL) are 115v single phase installed in a NEMA 12 enclosure for Dock Alert and NEMA 4X enclosure for iDock Alert. All electrical control panel components, connections and wiring are UL listed/recognized.

**Please Note:** Unless specifically noted on quotation, all electrical requirements, including mounting of control box, outside lights and signs, are the responsibility of others.

## Warranty

All PowerStop (M) vehicle restraints feature a full one (1) year base warranty on all structural, hydraulic and electrical parts, including freight and labor charges in accordance with Systems, LLC's Standard Warranty Policy. Systems, LLC warrants all components to be free of defects in materials and workmanship, under normal use, during the warranty period. This base warranty period begins upon the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier.

## Order Specifications

### Check Options Desired

- |                           |  |  |
|---------------------------|--|--|
| <b>Optional Equipment</b> | <input type="checkbox"/> Manual Dock Alert (NEMA 12)               | <input type="checkbox"/> Low Profile 10"               |
|                           | <input type="checkbox"/> Automatic Dock Alert (NEMA 12)            | <input type="checkbox"/> Embed Plate ___Wall ___Drive  |
|                           | <input type="checkbox"/> <b>Manual</b> iDock Alert                 | <input type="checkbox"/> Anchor Pkg ___ Wall ___ Drive |
|                           | <input type="checkbox"/> Automatic iDock Alert                     | <input type="checkbox"/> Control Stanchion - Open Dock |
|                           | <input type="checkbox"/> Automatic iDock Alert                     | <input type="checkbox"/> Other _____                   |
|                           | <input type="checkbox"/> iDock 1.0 Controller (see 1.0 literature) | <input type="checkbox"/> Other _____                   |
|                           | <input type="checkbox"/> Dock Leveler Interlock                    | <input type="checkbox"/> Other _____                   |
|                           | <input type="checkbox"/> Optional Alarm                            | <input type="checkbox"/> Other _____                   |
|                           | <input type="checkbox"/> Cantilever Bracket                        |  |
|                           |  | _____ Projection                                       |

\*options must also be selected on the iDock Controls specification sheet

## Required Information

CUSTOMER	_____
JOB	_____
LOCATION	_____
NUMBER OF UNITS	_____
MODEL	_____
SIZE	_____
REPRESENTED BY	_____
SALES REP	_____

## Certified for Construction

BY	_____
DATE	_____
COMPANY	_____
CITY & STATE	_____
VOLTAGE / PHASE	_____
DRAWING #	_____