

GUIDE SPECIFICATION

MANUFACTURER:

4Front Entrematic – Kelley
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SECTION 11 13 19.33

SURFACE CHOCK™- WHEEL RESTRAINT

This guide specification section has been prepared by 4Front Entrematic –Kelley and is intended to assist the specifier in preparing a specification for an Electro-mechanically operated truck restraint devices, complete with all available options and accessories.

Edit entire section to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format, and standard references to section names and numbers are based on the CSI Master Format 2004.

For specification assistance on specific product applications or information about other 4Front Entrematic - Kelley products, please contact our offices above or any of our local product representatives throughout the country.

4Front Entrematic - Kelley reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted to the manufacturer's web site and/or in printed matter as they occur. 4Front Entrematic - Kelley makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 - GENERAL

1.1 SUMMARY

- A. Related Documents: Provisions established within General and Supplementary Conditions of the Contract, Division 1 - General Requirements and Drawings are collectively applicable to this Section.

- B. Related Sections:
1. Section 05 50 00 - Metal Fabrications: [Perimeter guard rails and inserts.] [Dock slab and door protection edge angles.]
 2. Division 16 - Electrical: Connections to dock equipment.

I.2 SYSTEM DESCRIPTION

- A. Design Requirements: Provide fixed-in-place wheel engagement truck restraint devices.
- B. Provide equipment which has been manufactured, fabricated, and installed to withstand loads specified and to maintain performance criteria stated by manufacturer without defects or failure.
- C. Comply with ANSI MHI (Material Handling Institute) 30.3.

I.3 SUBMITTALS

- A. General: Submit in accordance with Section 01 33 00.
- B. Product Data: Submit product data for truck restraint equipment.
- C. Shop Drawings: Submit drawings indicating fabrication and erection of restraint equipment, including plans, elevations and large scale details.
 1. Show anchorages, critical installation clearances, connections, and accessory items.
 2. Provide location template drawings for items supported or anchored to permanent construction.
 3. Provide rough-in drawings for electrical service in advance of concrete work.
- D. Informational Submittals: Submit following:
 1. Manufacturer's instructions.
- E. Closeout Submittals: Submit following in accordance with Section 01 78 00.
 1. Maintenance data.
 2. Warranty: Specified warranty.

I.4 QUALITY ASSURANCE

- A. Single Source Responsibility: Each component of restraint device is required to be from same manufacturer.
- B. Manufacturer Qualifications: Company specializing in manufacturing Products specified in this Section with minimum ten years documented experience.
- C. Installer Qualifications: Approved in writing by manufacturer with documented experience on at least five projects of similar nature in past three years.
- D. Regulatory Requirements: In compliance with ANSI MH 30.3 and applicable OSHA requirements.
- E. Certifications: Submit manufacturer's certification that products furnished for Project meet or exceed specified requirements.
- F. Manufacturer to hold current ISO 9002 certification

I.5 WARRANTY

- A. Special Warranty: Prepare and submit in accordance with Section 01 78 36.
 1. Standard manufactures warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER AND MODEL

- A. Kelley Surface Chock wheel restraint as manufactured by:
- B. 4Front Entrematic - Kelley, 1612 Hutton Drive, Suite 140, Carrollton, Texas, (800) 933-4834 voice, (972) 323-2661 facsimile

2.2 TRUCK RESTRAINT DEVICES

- A. General:
 - 1. Provide manufacturer's standard automatic device designed to engage vehicle's rear wheel and hold truck at loading dock. Driveway mounted restraint shall have a hot dipped galvanized finish. System will move automatically adjusting to varying axle placement and automatically adjust during loading/unloading operations. In the event the vehicle wheel is not engaged, unit will automatically restore.
- B. Operation:
 - 1. Automatic Operating System: Provide manufacturer's standard hydraulically powered restraint, activated by a remote-control station.
 - a. Electrical Requirements: Coordinate wiring requirements and current characteristics with building electrical system. See Division 16 Sections
 - b. NEMA 12, UL listed remote Control panel, complete with push-buttons or switches for ENGAGE, RELEASE, RESTRAINT OVERRIDE and STOP functions. Control includes manufacturers standard red, amber & green lights, and instruction label. Auxiliary output of hitched condition.
- C. Switches on exterior of building not to exceed 24 volts.
- D. Restraint to automatically restore if a secure engagement is not accomplished.
- E. Mounting: Provide manufacturer's standard mounting method as follows
 - 1. Driveway Mounted: Mount unit to driveway allowing 4" clearance from ground to underside of rail.
- F. Power failure emergency release function shall be provided.
- G. Remote mounted power unit located inside building
- H. Controls: Control box to be operated by solid-state programmable controller with diagnostic capability.
- I. Communication System: Provide manufacturer's standard system, as follows:
 - 1. Warning Signs: Set of surface-mounted signs.
 - 2. Signal Lights: Set of illuminated exterior and interior signal lights to indicate device's status to both controller and truck driver. Lights shall be activated automatically when device engages rear-impact guard. All lights to be LED.
 - 3. Control box to be equipped with 3-light system to include Red, Green & Amber light system
 - 4. Visual system for indicating that vehicle wheel is not engaged.
 - 5. [Optional: Audible Alarm: Audible system for indicating that vehicle wheel is not engaged.]

2.3 FINISHES

- A. Finish:
 - 1. Preparation: Clean surfaces free from slag and splatter, loose mill scale, oil, grease, or rust.
 - 2. Factory applied manufacturer's standard hot dipped galvanized finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions and proceed with Work in accordance with Section 01 40 00.

3.2 INSTALLATION

- A. Install in accordance with Section 01 60 00.
- B. Connect motors and electrical leads with control units.
- C. Remote Control Station: Locate where indicated.

3.3 ADJUSTING AND CLEANING

- A. Adjust installed unit for smooth, safe, efficient and balanced operation.
- B. Remove temporary labels and coverings and protection of adjacent work areas.
- C. Repair or replace damaged products.

- D. Remove construction debris from site and dispose.

3.4 INSTRUCTION OF OWNER'S PERSONNEL

- A. Instruct Owner's personnel in operation and maintenance of installed units. Provide bound copy of manufacturer's operation and maintenance manual at time of instruction.

END OF SECTION