

GUIDE SPECIFICATION

MANUFACTURER:

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SECTION 11 13 19.13 CM MECHANICAL DOCK LEVELERS

This guide specification section has been prepared by 4Front Engineered Solutions - Kelley, and is intended to assist the specifier in preparing a specification for mechanical type dock levelers, complete with all available options and accessories. Mechanical type levelers are the least expensive built-in type of leveler.

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 MasterFormat 04.

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

4Front Engineered Solutions – 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 Engineered Solutions – Kelley makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART I - GENERAL

I.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 03 30 00 - Cast-In-Place Concrete: Concrete pit.
 - 2. Section 05 50 00 - Metal Fabrications: [Perimeter guard rails and inserts.] [Dock slab and door protection edge angles.]

I.2 SYSTEM DESCRIPTION

- A. Design Requirements: Provide fixed-in-place adjustable loading and unloading platform for difference in height and gap between truck bed and building loading dock.
- B. Provide loading dock 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 MH14.1-1987.

I.3 SUBMITTALS

Include submittal requirements below, which are consistent with the scope of the project and extent of work of this section. Only request submittals which are necessary for review of design intent.

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings.

- A. General: Submit in accordance with Section 01 33 00.
- B. Product Data: Submit product data for dock leveler equipment.
- C. Shop Drawings: Submit drawings indicating fabrication and erection of dock levelers including plans, elevations and large-scale details.
 - 1. Show anchorage, pit sizes, critical installation clearances, connections, and accessory items.
 - 2. Provide location template drawings for items supported or anchored to permanent construction.
- 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 dock leveler 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 five years.
- D. Regulatory Requirements: In compliance with ANSI MH14.1-1987 and the safety and labeling requirements of ANSI MH30.1-2007.
- E. Certifications: Submit manufacturer's certification that products furnished for Project meet or exceed specified requirements.
- F. Manufacturer to hold current ISO 9001 certification

I.5 WARRANTY

- A. Special Warranty: Prepare and submit in accordance with Section 01 78 36.
 - 1. Manufacturer's standard 1-year parts & labor warranty plus 4-year additional parts only warranty on main springs. Prorated 10-year structural warranty available upon engineering approval of written application.

Parts include Lip: Lip hinge, and shaft: deck plate and beams: rear frame and rear hinges

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:

1. 4Front Engineered Solutions - Kelley, 1612 Hutton Drive, Suite 140, Carrollton, TX 75006, (972) 466-0707 voice, (972) 389-4752 facsimile

2.2 DOCK LEVELERS

A. General:

1. Capacity: [30K] [35K] [40K] [45K] (per ANSI MH14.1-1987).
2. Platform Width: [6] [6.5] [7] feet
3. Platform Length: [6] [8] [10] feet
4. Platform Deck Thickness: 1/4 inch high tensile steel safety tread plate [with abrasive non-skid finish].
5. Lip: [16] [18] [20] inch extension, 5/8 inch thick high tensile steel safety tread plate [with abrasive non-skid finish].
6. Vertical Compensation: Floating travel up and down to compensate for loading and unloading of truck.
7. Service Range: 12 inches above and 12 inches below dock level for 6 and 8 foot long, 15 above and 12 below for 10 foot long.
8. Side to Side Cross-Tilt: 4 inches maximum over width of ramp.
9. Pit Floor Slope: Minimum 1/2 inch, back to front.
10. Identification: Attach to dock leveler in conspicuous place stating:
 - a. Capacity.
 - b. Name of Manufacturer.
 - c. Model Number.
 - d. Serial Number.
11. Standard Features:
 - a. Structural Safety Legs
 - b. Permanently mounted hinged maintenance safety strut
 - c. Automatic Night locks
 - d. Cross traffic supports.
 - e. 40K-45K capacity 3-wheel Structural Center Support Beam
 - f. Clean frame design-open front structure to allow easy clean out
 - g. Working range toe guard protection
 - h. Hold down system to provide unlimited leveler float
 - i. Soft Release Hold-Down
 - j. Shimless rear frame design
 - k. Grease fittings.
12. Options:
 - a. [Full range toe guard protection.]
 - b. [Side and rear weather seals.] Type [Brush] or [Neoprene] on sides
 - c. [Energy Guard Perimeter Weatherseal system]
 - d. [Galvanized ramp, lip, and frame.] Type [spray] or [hot dipped.]
 - e. [Self-forming.][Pour in place box.]

- B. Acceptable Model and Manufacturer: **Kelley model CM: 4Front Engineered Solutions, 1612 Hutton Drive, Suite 140, Carrollton, TX 75006 (P)972-466-0707**

2.3 FABRICATION

A. Dock levelers:

1. Welded base frame construction.
2. Unit supplied completely assembled, ready for use.

2.4 FINISHES

A. Dock leveler Finish:

1. Preparation: Clean surfaces free from slag and splatter, loose mill scale, oil, grease, or rust.

2. Dock leveler: Factory apply manufacturer's standard DTM (Direct to Metal) Water based Paint with built in rust inhibitors.
1. Color: Manufacturer's standard color.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

- A. Coordinate forming of pit to receive dock leveler.
 1. Pit angle curbing and embeds by others.
 2. Ensure curb angles are square, level and flush with pit surfaces.
 3. Ensure that curb angles are in proper place and pit is of adequate size to receive leveler.
 - a. Pit Design:
 1. [20" for 6', 8' long][24" for 10' long] pit depth for new construction.

3.3 INSTALLATION

- A. Dock leveler: Install in accordance with Section 01 60 00.
 1. Install dock levelers in pits provided in loading dock.
 2. Adjust dock leveler height by manufacturer's recommendations as required to provide flush alignment with leveler and dock floor. Weld leveler frame securely to embedded curb steel.
 3. Weld back of leveler frame to pit curb.
 4. Touch-up welds with primer and apply finish to match leveler finish.

3.4 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.

3.5 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