

ANSI MH30.2-2015
Revision of
ANSI MH30.2-2005



Portable Dock Leveling Devices: Performance and Testing



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Loading Dock Equipment Manufacturers (LODEM)
An Industry Group of MHI

Approved August 11, 2015
American National Standards Institute, Inc.

FOREWORD. This Standard, which was developed under the American National Standards Institute (ANSI) Canvass method and approved by ANSI on August 11, 2015, represents suggested design practices and operational requirements for portable dock leveling devices. It was developed by MHI, along with the Loading Dock Equipment Manufacturers ("LODEM"), one of its Industry Groups, and is intended to provide useful information and guidance for owners, users, designers, purchasers or specifiers of material handling equipment or systems. It is advisory only and should only be regarded as a simple tool that its intended audience may or may not choose to follow, adopt, modify, or reject. A Standard may be part of, but does not constitute a comprehensive safety program that cannot guard against pitfalls in operating, selecting and purchasing such a system, and should not be relied upon as such. Such a program should be developed by a qualified professional.

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The **Loading Dock Equipment Manufacturers** (LODEM) is comprised of companies that design and manufacture portable loading dock leveling devices in North America. This Standard is the result of LODEM's recognition of the need to standardize performance, and design criteria for the proper utilization of portable dock leveling devices, and was formulated under MHI procedures approved by ANSI.

LODEM formed the MH30 Committee in 1990 after the American Society of Mechanical Engineers (ASME) submitted the American National Standard ANSI/ASME MH 14.1-1984 and addenda 1a-1985 and 1b-1986 for withdrawal. These withdrawals were approved September 18, 1989.

This Standard, which was originally approved by ANSI on December 16, 1993, and revised in 2000 and 2005, represents design, operating and testing practices and performance criteria that may be used in determining product utilization.

On the date of approval of this Standard, LODEM consisted of the following member companies:

- 4Front Entrematic
- Blue Giant Equipment Corporation
- Bluff Manufacturing, Inc.
- Nova Technology
- Pentalift Equipment Corporation
- Rite-Hite Corporation
- Systems, Incorporated

Questions or suggestions for improvement regarding of this standard are welcome. Suggestions should be sent to: MH30.2 Committee, MHI, 8720 Red Oak Blvd., Suite 201, Charlotte, NC 28217; standards@mhi.org.

Portable Dock Leveling Devices: Performance and Testing

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Portable Dock Leveling Devices: Performance and Testing

1 Purpose and Scope

This Standard defines performance and testing requirements for the design, use, and maintenance of portable dock leveling devices. The purpose of this Standard is to provide a uniform means of comparison, improve user confidence and knowledge and to define product requirements for portable dock leveling devices.

A **dock leveling device** is a manufactured structure designed to span and compensate for height differentials between a stationary loading dock and a movable transport vehicle to facilitate effective and efficient freight transfers. Dock leveling devices may be either built-in or portable.

A **portable type dock leveling device** is not permanently affixed to either the transport vehicle or the dock structure, and is capable of being moved from one location to another by manual effort or by independently powered equipment. Portable dock leveling devices are commonly referred to as **dockboards** or **dockplates**.

Performance and testing requirements for built-in dock leveling devices are provided in ANSI MH30.1 2015.

2 Other Applicable Specifications

Parts of this Standard refer to certain portions of other applicable specifications or standards. The publications of the following organizations are mentioned in the text:

ANSI MH30.1-2015, *Dock Leveling Devices: Performance and Testing*

ANSI MH30.3-2015, *Vehicle Restraining Devices: Performance and Testing*

Aluminum Association, Inc. (AAI), *Aluminum Design Manual*

ASTM International (www.astm.org)

American Welding Society (www.aws.org) standards for all welded connections

American Institute of Steel Construction (AISC)

Occupational Safety and Health Administration (OSHA)

3 Definitions

For the purposes of this document, the following terms and definitions apply:

3.1

dockboard

a plate-like structure with additional beam-like members located on two opposing sides of the plate and oriented parallel to the span of the plate. These members are welded or bolted to the plate and have the dual purpose of providing additional support to allow the dockboard to support heavy loads such as from fork lift trucks, as well as providing a run-off guard, or curb

3.2

dockplate

a plate-like structure that is designed to carry loads without the assistance of additional supporting members, and is typically used for lighter loads associated with foot traffic and hand trucks