

# American National Standard for Mobile Ladder Stands and Mobile Ladder Stand Platforms



American National Standards

# American National Standard for Mobile Ladder Stands and Mobile Ladder Stand Platforms

Secretariat

**American Ladder Institute**

Approved February 16, 2006

**American National Standards Institute, Inc.**

For information on possible errata sheets and other ANSI-ASC  
A14 Standards please refer to the ALL website located at:

**[www.americanladderinstitute.org](http://www.americanladderinstitute.org)**

# American National Standard

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether they have approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions.

The American National Standards Institute does not develop standards and will in no circumstances give an interpretation of any American National Standard. Moreover, no persons shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute.

**Caution Notice:** This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by

**American Ladder Institute**  
**401 N. Michigan Avenue, Chicago, IL 60611**

Copyright© 2006 by ANSI-ASC A14 Committee

All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

Printed in the United States of America

# Foreword

(This forward is not a part of American National Standard A14.7-2006.)

This standard is a revision of American National Standard A14.7-2000. It is one of a series of many standards prepared under the supervision of the accredited American National Standards Committee on Safety in the Construction, Care, and Use of Ladders, A14.

Prior to the initial publishing of A14.7- 1991, the product types covered by this standard were found in A92.1. Other products found in A92.1, such as manually propelled scaffolds (towers), are now under the jurisdiction of A10.8.

One very important distinction to be made about the products identified in this standard is that these products are primarily used in the workplace, generally purchased to perform a specific task, and quite often remain in the same work area throughout their useful life. They are not intended to be broken down and rebuilt once initially constructed.

The majority of changes in the current revision are administrative in nature to provide additional clarity and

direction to manufacturers and users. Additions include a handrail/guardrail test, new definitions, and an expanded labeling/marketing section.

The requirements of this standard shall become effective on the date the revised A14.7 standard is approved by ANSI.

Rationales have been developed and are in the possession of the administrative secretariat, the American Ladder Institute, regarding the thought processes and decisions involved in the development of the A14.7 standard.

Suggestions for improvement of this standard will be welcome. They should be sent to the American Ladder Institute, 401 North Michigan Avenue, Chicago, Illinois 60611.

This standard was processed and approved for submittal to ANSI by the accredited American National Standards Committee on Safety in the Construction, Care, and Use of Ladders, A14. Committee approval of the standard does not necessarily imply that all the committee members voted for its approval. At the time it approved this standard the A14 Committee had the following members:

Erick Knox, Chairman  
Don Gibson, Vice Chair  
Ron Pietrzak, Administrative Secretariat

## Organization Represented

	<b>Name of Representative</b>
Alliance of American Insurers . . . . .	Keith D. Lessner
The Aluminum Association . . . . .	Peter Pollack
American Insurance Association . . . . .	George Earhart Thomas Murray (Alt)
American Ladder Institute . . . . .	Tom Greco

American Society of Safety Engineers . . . . .	Keith Vidal Thomas F. Bresnahan (Alt 1) Jim Smith (Alt 2)
Associated General Contractors of America . . . . .	Charlie Bird John O'Donovan (Alt)
Canadian Standards Association . . . . .	Walter Dick
Disappearing Attic Stairway Association . . . . .	Dennis Williams Brad Hudspeth (Alt)
Illinois Association of Building Maintenance Contractors . . . . .	Carl Pedersen James Weil (Alt)
International Brotherhood of Electrical Workers . . . . .	James Tomaseski
International Brotherhood of Painters and Allied Trades . . . . .	Dan Penski Mike Metz (Alt)
International Union of Bricklayers & Allied Craftsmen . . . . .	Anthony Kassman
Metal Ladder Manufacturers Association . . . . .	Dave Plotner Dale King (Alt)
National Fire Protection Association . . . . .	Samuel C. Cramer Ronald Bennett (Alt)
National Frame Builders Association . . . . .	Stan Virkler
Precision Ladders. . . . .	Don McKinney Steve Richey (Alt)
Safe-Step . . . . .	Chris Prentice Paul Junius (Alt)
Scaffold Industry Association. . . . .	Linda Tweten Alan Kline (Alt)
Steel Plate Fabricators Association . . . . .	Wallace Melvin Gary Wildman (Alt)
Underwriter's Laboratories . . . . .	Edgar Wolff-Klammer
U.S. Consumer Product Safety Commission . . . . .	Thomas Caton* Nicholas Marchica* (Alt)
U.S. Department of the Army, Corps of Engineers . . . . .	vacant
U.S. Department of Labor OSHA. . . . .	Virginia Fitzner Robert Bell (Alt)
ANSI Z133.1 Committee . . . . .	vacant (Alt 2)
Independent Specialists. . . . .	Donald Bloswick John E. Johnson George H. Kyanka Irving Ojalvo Steven Cramer

\*non-voting advisory member

Subcommittee A14.7 Mobile Ladder Stands and Mobile Ladder Stand Platforms, which developed this standard, had the following members:

Martin Silverman, Chairman	William F. Frame	Alan Kline	William G. Switalski
Ronald Bennett	Don Gibson	Erick Knox	Jim Tomaseski
Thomas Bresnahan	Tony Huffine	Daniel Penski	Mike Van Bree
Richard Feldmiller	Jim Kerr	Eric Pucek	David Young

# Contents

<b>Section</b>	<b>Page</b>
Introduction . . . . .	7
1. Scope and Purpose . . . . .	7
1.1 Scope . . . . .	7
1.2 Purpose . . . . .	7
1.3 Exceptions . . . . .	7
2. General . . . . .	7
2.1 Application . . . . .	7
2.2 Interpretations . . . . .	8
3. Definitions . . . . .	8
4. Requirements for Mobile Ladder Stands and Mobile Ladder Stand Platforms . . . . .	8
4.1 General Requirements . . . . .	8
4.2 Load Rating . . . . .	9
4.3 Design Requirements – Mobile Ladder Stands . . . . .	9
4.4 Design Requirements – Mobile Ladder Stand Platforms . . . . .	9
5. Performance Requirements . . . . .	10
5.1 Stability Tests . . . . .	10
5.2 Load Testing . . . . .	10
5.3 Labeling Tests . . . . .	10
6. Care and Use of Mobile Ladder Stands and Mobile Ladder Stand Platforms . . . . .	11
7. Labeling / Marking . . . . .	12
7.1 General Requirements . . . . .	12
7.2 Manufacturers’ Information . . . . .	12
8. Maintenance . . . . .	12
8.1 Manufacturers’ Responsibility . . . . .	12
8.2 Owners’ Responsibility . . . . .	12

## Appendices

Appendix A (1) – Mobile Ladder Stand Nomenclature . . . . .	13
Appendix A (2) – Mobile Ladder Stand Platform Nomenclature . . . . .	14
Appendix A (3) – Mobile Ladder Stand Platform Nomenclature (continued) . . . . .	15
Appendix B – Side and Rear Stability Tests . . . . .	16
Appendix C – Examples of Some Typical Mobile Ladder Stands . . . . .	17
Appendix D – Examples of Some Typical Mobile Ladder Stand Platforms . . . . .	18
Appendix E – Illustrations of Labels/Markings . . . . .	19

# American National Standard for Mobile Ladder Stands and Mobile Ladder Stand Platforms

## Introduction

This standard is one of a series formulated under the general auspices of the American National Standards Institute with the American Ladder Institute as administrative secretariat.

The development and increasing use of a variety of mobile ladder stands and mobile ladder stand platforms necessitates establishment of performance specifications for design and manufacture.

This standard sets forth requirements that must be considered and built into the devices to provide for proper operation.

## 1. Scope and Purpose

### 1.1 Scope

This standard prescribes rules and requirements governing the proper design, construction, testing, care, use, and maintenance of mobile ladder stands and mobile ladder stand platforms including labeling /marking of these units.

It excludes special purpose units that do not meet the general requirements of this standard.

### 1.2 Purpose

This standard establishes requirements to be met for the design, construction, testing, care, maintenance and use of mobile ladder stands and mobile ladder stand platforms.

In order for users to develop effective operating procedures, this standard may also serve as a basis for instructing and training personnel in proper equipment use.

It is not the purpose of this standard to specify all the details of construction of mobile ladder stands and mobile ladder stand platforms. The limitations imposed

are for the purpose of providing adequate general requirements and test methods.

### 1.3 Exceptions

This standard does not include the products (scaffolds and aerial lifts) covered by:

ANSI A10.8-2001, Construction and Demolition Operations — Scaffolding- Safety Requirements.

ANSI / SIA A92.2-2001, Vehicle Mounted Elevating and Rotating Aerial Devices.

ANSI / SIA A92.3-1990, Manually Propelled Elevating Work Platforms.

ANSI / SIA A92.5-1992, Boom-Supported Elevating Work Platforms.

ANSI / SIA A92.6-1999, Self-Propelled Elevating Work Platforms.

ANSI / SIA A92.7-1990 (R1998), Airline Ground Support Vehicle-Mounted Vertical Lift Devices.

ANSI / SIA A92.8-1993 (R1998), Vehicle-Mounted Bridge Inspection and Maintenance Devices.

ANSI / SIA A92.9-1993, Mast-Climbing Work Platforms.

## 2. General

### 2.1 Application

This standard is intended for voluntary use by establishments that use, manufacture, or purchase mobile ladder stands and/or mobile ladder stand platforms by providing a set of performance and dimensional requirements against which products may be evaluated.

This standard may also serve as a guide to federal and state authorities or other regulatory bodies in the formulation of laws or regulations.