

ANSI-ASC A14.7-2011

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



American National Standards

**ANSI-ASC A14.7-2011**  
**Revision of ANSI A14.7-2006**

# **American National Standard Safety Requirements for Mobile Ladder Stands and Mobile Ladder Stand Platforms**

Secretariat

**American Ladder Institute**

Approved January 20, 2012

**American National Standards Institute, Inc.**



For information on possible errata sheets and other ANSI-ASC  
A14 Standards please refer to the ALI 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 and errata sheets.

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**CAUTION NOTICE: This American National Standard may be revised or withdrawn at anytime. 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 2011 by ANSI Accredited Standards Committee (ASC) A14 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 A14.7-2011.)

This standard is a revision of American National Standard A14.7-2006. It is one of a series of many standards approved by the Accredited Standards Committee (ASC) 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. Where differences had existed, for example, definitions or testing criteria, A14.7 has been brought in line with other A14 standards.

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  
Dave Plotner, Vice Chair  
Janet Rapp, Secretariat

<b>Organization Represented</b>	<b>Name of Representative</b>
American Insurance Association .....	George Earhart
American Ladder Institute .....	Ron Schwartz Marc McConnell (Alt)
American Society of Safety Engineers.....	Michael Lorenzo
Associated General Contractors of America .....	Charles E. Bird
Canadian Standards Association.....	Oreste Simonetta
Cosco Home and Office Products.....	Eric Kruse Terry Emerson (Alt)
Featherlite Industries.....	Garry Turgeon Wolfgang Gelhard (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.....	Greg Renne Dan Penski (Alt)
International Union of Bricklayers & Allied Craftsmen .....	Gerald Scarano
Louisville Ladder .....	Tom Schmitt
National Fire Protection Association .....	Scott Cramer Samuel C. Cramer (Alt)
National Frame Builders Association.....	Stan Virkler
Precision Ladders .....	Don McKinney Steve Richey (Alt)
Risk Retention Services .....	Paul B. Junius Robert G. Stuligross (Alt)
Scaffold Industry Association.....	Alan Kline Elouise Schultz (Alt)
Steel Plate Fabricators Association.....	Don Baker
U.S. Consumer Product Safety Commission .....	Thomas Caton* Mark E. Kumagai* (Alt)
U.S. Dept. of Labor OSHA .....	Virginia Fitzner* Robert Bell* (Alt)
Werner Ladder .....	Brett Latimer Dale King (Alt)
Independent Specialists.....	Dr. Donald Bloswick Dr. George H. Kyanka Dr. Irving Ojalvo

\*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

Frederick Bartnicki

Ronald Bennett

Thomas Bresnahan

Scott Cramer

William F. Frame

Tony Huffine (deceased)

Jim Kerr

Erick Knox

Eric Pucek

Tom Richardson

Tom Schmitt

William G. Switalski

Jim Tomaseski

Mike Van Bree

David Young

# Contents

<b>Section</b>	<b>Page</b>
Introduction . . . . .	1
1. Scope and Purpose . . . . .	1
1.1 Scope . . . . .	1
1.2 Purpose . . . . .	1
1.3 Exceptions . . . . .	1
2. General . . . . .	1
2.1 Application . . . . .	1
2.2 Interpretations . . . . .	2
2.3 Effective Date . . . . .	2
3. Definitions . . . . .	2
4. Requirements for Mobile Ladder Stands and Mobile Ladder Stand Platforms . . . . .	3
4.1 General Requirements . . . . .	3
4.2 Load Rating . . . . .	3
4.3 Design Requirements – Mobile Ladder Stands . . . . .	4
4.4 Design Requirements – Mobile Ladder Stand Platforms . . . . .	4
5. Performance Requirements . . . . .	5
5.1 General Requirements . . . . .	5
5.2 Stability Tests . . . . .	5
5.3 Load Testing . . . . .	5
5.4 Labeling Tests . . . . .	6
6. Care and Use of Mobile Ladder Stands and Mobile Ladder Stand Platforms . . . . .	6
7. Labeling / Marking . . . . .	7
7.1 General Requirements . . . . .	7
7.2 Manufacturers' Product Data Information . . . . .	7
7.3 Additional User Information and URL . . . . .	7
8. Maintenance . . . . .	8
8.1 Manufacturers' Instructions . . . . .	8
8.2 Owners' Responsibility . . . . .	8

## Figures

Figure 1 – Stability Tests . . . . .	9
Figure 2 – Step/Platform and Unit Test . . . . .	10

## Appendices

Appendix A (1) – Mobile Ladder Stand Nomenclature . . . . .	11
Appendix A (2) – Mobile Ladder Stand Platform Nomenclature . . . . .	12
Appendix A (3) – Mobile Ladder Stand Platform Nomenclature (continued) . . . . .	13
Appendix B – Examples of Some Typical Mobile Ladder Stands . . . . .	14
Appendix C – Examples of Some Typical Mobile Ladder Stand Platforms . . . . .	15
Appendix D – Illustrations of Labels/Markings . . . . .	16

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

## Introduction

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

The manufacture and increased 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.

### 1.2 Purpose

The purpose of this standard is to provide reasonable safety for life, limb, and property by establishing requirements for the design, construction, testing, care, maintenance, and use of mobile ladder stands and mobile ladder stand platforms.

It is not the purpose of this standard to specify all the details of construction of mobile ladder stands and mobile ladder stand platforms. These criteria are for the purpose of providing adequate general requirements and testing methods needed for consistency.

### 1.3 Exceptions

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

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

ANSI A14.1-2007, American National Standard for Ladders – Wood Safety Requirements

ANSI A14.2-2007, American National Standard for Ladders – Portable Metal – Safety Requirements

ANSI A14.5-2007, American National Standard for Ladders – Portable Reinforced Plastic – Safety Requirements

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

ANSI / SIA A92.2-2009, Vehicle Mounted Elevating and Rotating Aerial Devices.

ANSI / SIA A92.3-2006, Manually Propelled Elevating Work Platforms.

ANSI / SIA A92.5-2006, Boom-Supported Elevating Work Platforms.

ANSI / SIA A92.6-2006, Self-Propelled Elevating Work Platforms.

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

ANSI / SIA A92.8-2006, Vehicle-Mounted Bridge Inspection and Maintenance Devices.

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

ANSI / SIA A92.10-2009, Transport Platforms.

A120.1-2008, Safety Requirements for Powered Platforms & Traveling Ladders & Gantries for Building Maintenance.

## 2. General

### 2.1 Application

This standard is intended for voluntary use by those entities 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.