

ANSI/SIA A92.5 - 2006

AMERICAN NATIONAL STANDARD

for
Boom - Supported
Elevating Work Platforms



American National Standards Institute
11 West 42nd Street
New York, New York 10036

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The design and manufacturing requirements of this standard apply to all aerial platforms manufactured on or after the effective date. All other provisions of this standard apply to both new and existing units delivered by sale, lease, rental or for any form of beneficial use on or after the effective date.

The effective date is established by the standards developer and not by the American National Standards Institute.

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**ANSI/SIA
A92.5-2006**

Revision of
ANSI A92.5-1992

**AMERICAN NATIONAL STANDARD
BOOM-SUPPORTED ELEVATING
WORK PLATFORMS**

Secretariat
Scaffold Industry Association, Inc.

Approved January 17, 2006
American National Standards Institute, Inc.

American National Standard

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Foreword This Foreword is not part of American National Standard for Boom-Supported Elevating Work Platforms, ANSI/SIA A92.5-2006.

This standard is one of a series on aerial platforms developed under the committee procedures of the American National Standards Institute. The A92 standards committee was organized by the Institute in 1948. The Scaffold Industry Association, Inc. serves as Secretariat.

The primary objective of this standard is to prevent accidents associated with the use of Self-propelled boom-supported elevating work platforms by establishing requirements for design, manufacture, maintenance, performance, use and training.

This revision to ANSI/SIA A92.5 separately addresses each entity to clearly define responsibilities. Care was taken to provide consistency between this and other A92 standards. Definitions have been expanded to clarify interpretation.

Interpretations and Suggestions for Improvement

All inquiries requesting interpretation of the Committee's approved American National Standards must be in writing and directed to the Secretariat. The A92 Committee shall approve the interpretation before submission to the inquirer. No one but the A92 Committee is authorized to provide any interpretation of this standard.

The A92 Committee solicits comments on and criticism of the requirements of the standards. The standards will be revised from time to time where necessary or desirable, as demonstrated by the experience gained from the application of the standards. Proposals for improvement of this standard will be welcome. Proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed rationale for the proposal including any pertinent documentation.

All requests for interpretation and all suggestions for improvement shall be forwarded in writing to the ASC A92 Committee, c/o Secretariat ~ Scaffold Industry Association, Post Office Box 20574, Phoenix, AZ, 85036-0574.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee Aerial Platforms, A92. The ASC A92 committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time the ASC A92 committee approved this standard, the A92 Aerial Platforms Committee had the following members.

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ANSI/SIA A92.5 – 2006

**American National Standard
for Aerial Platforms**

Boom-Supported Elevating Work Platforms

1 Scope, purpose and application

1.1 Scope

1.1.1 Equipment Covered. This standard applies to self-propelled integral chassis aerial platforms having a platform that can be positioned completely beyond the base and are used to position personnel, along with their necessary tools and materials, at work locations. Aerial platforms are power operated with primary functions, including drive, controlled from the platform. Such aerial platforms are intended to be occupied when driven. (See Figure 1 on Page 28).

1.1.2 Effective Dates. The standard is effective August 28, 2006 as follows:

(1) **Design, manufacture and remanufacture requirements.** The design and manufacturing requirements of this standard will apply to all aerial platforms manufactured on or after the effective date. Aerial platforms remanufactured on or after the effective date of this standard shall comply with the requirements of this standard.

(2) **Rebuild/reconditioned requirements.** Rebuilt/reconditioned aerial platforms shall comply with the standard in effect as of the date of their original manufacture.

(3) **Responsibilities for dealers, owners, users, operators, lessors, lessees and brokers.** All provisions detailed for dealers, owners, users, operators, lessors, lessees and brokers apply to both new and existing units delivered by sale, lease, rental or any form of beneficial use on or after the effective date.

1.1.3 Equipment Not Covered.

(1) Ladder and ladder stands such as those covered in American National Standards for Ladder and Ladder Stands, ANSI A14 series

(2) Scaffolding such as those covered in the American National Standard for Construction and Demolition Operations Scaffolding Safety Requirements, ANSI A10.8-1988

(3) Vehicle and trailer-mounted elevating and rotating aerial platforms such as those covered in the American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices, ANSI/SIA A92.2-2001

(4) Non self-propelled elevating aerial platforms such as those covered in the American National Standard for Manually Propelled Elevating Aerial Platforms, ANSI/SIA A92.3-1990

(5) Self-propelled elevating aerial platforms such as those covered in the American National Standard for Self-Propelled Elevating Work Platforms, ANSI/SIA A92.6-1999

(6) Vehicle-mounted vertical lift devices such as those covered in the American National Standard for Airline Ground Support Vehicle-Mounted Vertical Lift Devices, ANSI/SIA A92.7-1990

(7) Vehicle-Mounted Bridge Inspection and Maintenance Devices, ANSI/SIA A92.8-1993-(reaffirmed 1998)

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

(9) Suspended Powered Platforms for exterior building maintenance, ANSI A120.1-1992

(10) Vertically adjustable equipment used primarily to raise and lower materials and equipment from one elevation to another, such as National Standards in the A17, B30 and B56 series

(11) Fire-fighting equipment such as those covered in the American National Standard for Automotive Fire Apparatus, ANSI/NFPA 1901-1991

(12) Construction and demolition

operation/digger derricks such as those covered in the American National Standard for Construction and Demolition Safety Requirements, Definitions and Specifications, ANSI A10.31-1995

(13) An attachment or device which is intended to convert a non self-propelled elevating aerial platform to a self-propelled elevating aerial platform, unless the resulting elevating aerial platform is within the scope of equipment covered as defined in Section 1.1.1 of this standard.

1.2 Purpose. This standard applies to self-propelled elevating aerial platforms to achieve the following objectives:

(1) Prevention of personal injuries and accidents

(2) Establishment of criteria for design, manufacture, remanufacture, rebuild/recondition, performance, inspection, training, maintenance, testing, and operation

(3) Establishment and understanding by, designers, manufacturers, dealers, owners, users, operators, lessors, lessees, and brokers of their respective responsibilities.

1.3 Application. The rapid development of a wide variety of boom-supported elevating work platform designs necessitates the establishment of standards for their design, manufacture, remanufacture, rebuild/recondition, performance, inspection, training, maintenance, testing and use.

Boom-supported elevating work platforms are generally intended for use on level surfaces. Normally, they are not insulated for use near electrically energized circuits, nor are they intended to be used in hazardous locations. Any boom-supported elevating work platform intended for use around electrically energized circuits shall meet the electrical requirements of ANSI/SIA A92.2-2001

The operation of any aerial platform is subject to certain hazards that can be protected against only by the exercise of intelligence, care, and common sense and not by mechanical means. It is essential to have competent, careful personnel trained in the intended use, safe operation,

maintenance and service of this type of equipment.

2 Referenced and Related American National Standards and Scaffold Industry Association publications

2.1 Referenced American National Standards.

This standard is intended to be used in conjunction with the following American National Standards. When these referenced standards are superseded by a revision approved by the American National Standards Institute, the revision shall apply:

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

ANSI Z535.1-2002, Safety Color Code

ANSI Z535.3-2002, Criteria for Safety Symbols
ANSI Z535.4-2002, Product Safety Signs and Labels

ANSI/AWS D1.1-98, Structural Welding Code — Steel

ANSI/AWS D1.2-97, Structural Welding Code — Aluminum

ANSI/NFPA 58- 1995, Storage and handling of Liquefied Petroleum Gases

ANSI/NFPA 70-1999, National Electrical Code

ANSI/NFPA 505- 1996, Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance, and Operation

2.2 Other referenced standards.

This standard is also intended to be used in conjunction with the following standards:

SAE J821-1985 for Electrical Systems for Construction, Agriculture and Off-Road Machines.

Code of Federal Regulations: (CFR)
1910.333.

2.3 Related American National Standards.

The standards listed here are for information only and are not essential for the completion of the requirements of this standard. When these related standards are superseded by a revision approved by the American National Standards Institute, the revision shall apply:

ANSI A10.4-1990, Personnel Hoists and Employee Elevators for Construction and Demolition Operations Safety Requirements

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

ANSI A10.31-1995, Construction and Demolition — Digger Derricks — Safety Requirements, Definitions, and Specifications

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

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

ANSI/SIA A92.7-1998, Airline Ground Support Vehicle-Mounted Vertical Lift Devices

ANSI/SIA A92.8-1993 (reaffirmed 1998), Vehicle-Mounted Bridge Inspection and Maintenance Devices

ANSI/SIA A92.9-1993 (reaffirmed 1998), Mast-Climbing Work Platforms

ANSI A120.1-1996, Suspended Powered Platforms for Exterior Building Maintenance

ANSI/NFPA 1901-1991, Automotive Fire Apparatus

2.4 Referenced Scaffold Industry Association publication(s). This standard is intended to be used in conjunction with the following SIA publication:

ANSI/SIA A92.5-2006 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, Lessees, and Brokers of Boom-Supported Elevating Work Platforms.

2.5 Related Scaffold Industry Association publication(s).

The publications listed here are for information only and are not essential for the completion of the requirements of this standard:

ANSI/SIA A92.2-2001 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, and Lessees of Vehicle-Mounted Elevating and Rotating Aerial Devices.

ANSI/SIA A92.3-1990 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, and Lessees of Manually Propelled Elevating Work Platforms.

ANSI/SIA A92.6-1999 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, Lessees, and Brokers of Self-Propelled Elevating Work Platforms.

ANSI/SIA A92.9-1998 Manual of Responsibilities for Dealers, Owners, Lessors, Lessees, and Brokers of Mast Climbing Work Platforms.

3 Definitions

Aerial platform: A mobile device that has an adjustable position platform, supported from ground level by a structure.

Alternative configuration(s): Arrangements of the aerial platform or its components which differ from each other. Alternative configurations may or may not have the same rated workload.

Anchorage(s): A secure point of attachment to be used with personal fall protection equipment (PFPE).

Authorized personnel (authorized person): Personnel approved or assigned to perform a specific type of duty or duties at a specific location or locations at a work site.