

**ANSI/SIA A92.6 - 2006**

**AMERICAN NATIONAL STANDARD**

for  
**Self - Propelled  
Elevating Work Platforms**



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

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This Standard was approved by ANSI on August 1, 2006.

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.

This standard was developed under procedures accredited as meeting the criteria for American National Standards. The Consensus Committee that approved the standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed standard was made available for public review and comment which provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.

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**ANSI/SIA  
A92.6-2006**

Revision of  
ANSI A92.6-1999

**AMERICAN NATIONAL STANDARD  
for SELF-PROPELLED ELEVATING  
WORK PLATFORMS**

Secretariat  
**Scaffold Industry Association, Inc.**

Approved August 1, 2006  
**American National Standards Institute, Inc.**

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**Foreword**

This Foreword is not part of American National Standard for Self Propelled Elevating Work Platforms, ANSI/SIA A92.6-2006.

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 Elevating Work Platforms by establishing requirements for design, manufacture, maintenance, performance, use and training.

This revision to ANSI/SIA A92.6 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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## American National Standard for Self-Propelled 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 cannot 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 (see Figure 1 for examples on page 36).

**1.1.2 Effective Dates.** The Standard will become effective May 20, 2007 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/recondition 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 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 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 American National Standard for Manually-Propelled Elevating Aerial Platforms, ANSI/SIA A92.3-2006.
- (5) Self-propelled elevating aerial platforms such as those covered in American National Standard for Boom-Supported Elevating Work Platforms, ANSI/SIA A92.5-2006.
- (6) Vehicle-mounted vertical lift devices such as those covered in American National Standard for Airline Ground Supported Vehicle-Mounted Vertical Lifts, ANSI/ SIA A92.7-1990 (Reaffirmed 1998).
- (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 (Reaffirmed 1998).
- (9) Suspended powered platforms for exterior building maintenance, ANSI A120.1-1996.
- (10) Vertically adjustable equipment used primarily to raise and lower materials and equipment from one elevation to another such as American National Standards in the A17, B30 and B56 series.
- (11) Fire-fighting equipment such as that covered in American National Standard for Automotive Fire Apparatus, ANSI/NFPA 1901-1991.
- (12) Construction and demolition operation digger derricks such as those covered in American National Standard for Construction and Demolition Safety Requirements, Definitions and Specifications, ANSI A 10.31-1995.
- (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 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 accidents and personal injuries.
- (2) Establishment of criteria for design, manufacture, remanufacture, rebuild/recondition, testing, performance, inspection, training, maintenance, 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 self-propelled elevating aerial platform designs necessitates the establishment of standards for their design, manufacture, (remanufacture), rebuild/recondition, maintenance, inspection, testing, training, performance, and use.

## **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 D 1 - 2004, Structural Welding Code Steel.

ANSI/AWS D1.2 - 2003, 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 and Regulations.**

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

- (1) SAE J821 - 1985 for Electrical Systems for Construction, Agriculture and Off-Road Machines.
- (2) 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/SIA A92.2-2001, Vehicle-Mounted Elevating and Rotating Aerial Devices

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

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

ANSI/SIA A92.7-1990 (Reaffirmed 1998), 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 (Reaffirmed 1998), Mast Climbing Work Platforms (R 1998).

ANSI A10.4-1990, Personnel Hoists.

ANSI A10.8-1988, Construction and Demolition Operations Scaffolding Safety Requirements.

ANSI A120.1-2001, Suspended Powered Platforms for Exterior Building Maintenance.

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

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 A92.6-2006 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, Lessees, and Brokers of Self-Propelled 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, Lessees and Brokers of Vehicle Mounted Elevating and Rotating Aerial Devices.

ANSI/SIA A92.3-2006 Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors, Lessees and Brokers of Manually Propelled Elevating Aerial Platforms.

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

ANSI/SIA A92.9-1993 Manual of Responsibilities for Dealers, Owners, Lessors, and Lessees 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.

**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.

**Base.** The relevant contact points of the aerial platform that form the stability fulcrum (e.g. wheels, casters, outriggers, stabilizers).

**Broker.** An independent business entity or person that arranges a lease or transfer of ownership of an aerial platform, but does not own the aerial platform. If the entity or person is an employee of the buyer, seller, lessor or lessee of the aerial platform, he shall not be considered a broker.

**Chassis.** The integral part of the aerial platform that provides mobility and support for the elevating assembly.

**Configuration.** All positions in which an aerial platform or any part thereof can be placed within its intended operating limits.

**Critical component(s).** Load supporting elements which support or stabilize the platform or aerial platform.

**Dealer.** A person or entity who buys from a manufacturer or distributor and who generally sells, rents, and services aerial platforms.

**Delivery.** Transfer of care, control, and custody of the aerial platform from one person or entity to another person or entity.

**Directional controls.** Controls that initiate functions that affect movement of the platform or the aerial platform.

**Ductile materials.** Materials having a minimum elongation of 10% in 2 inches (50.8mm).

**Elevating assembly.** The mechanisms used to position the platform relative to the aerial platform chassis.

**Familiarization.** Providing information regarding the control functions and safety devices for the aerial platform(s) to a qualified person or operator who controls the movement of the aerial platform(s) being delivered.

**Guardrail system.** A vertical barrier primarily intended to protect against personnel falling to lower levels.

**Hazardous location.** Any location that contains, or has the potential to contain, an explosive or flammable atmosphere as defined in ANSI/NFPA 505 – 1996, Powered Industrial Trucks.

**Instability.** A condition of an aerial platform in which the sum of the moments that tend to overturn the unit exceeds the sum of the moments tending to resist overturning.

**Insulated platform.** A platform designed and tested to meet the specific electrical insulation ratings consistent with the manufacturer's identification plate.

**Interlock.** A control or mechanism that, under specified conditions, automatically allows or prevents the operation of another control or mechanism.

**Lessee.** A person(s) or entity to whom an aerial platform is provided by lease, rental, loan, or other arrangement. A lessee may also be a dealer, owner, user or operator.

**Lessor.** A person(s) or entity who leases, rents, loans, or otherwise provides an aerial platform to another party