

**ANSI/SIA A92.3 - 2006**

AMERICAN NATIONAL STANDARD

**for**

**Manually Propelled  
Elevating Aerial Platforms**



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

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**ANSI/SIA  
A92.3-2006**

Revision of  
ANSI A92.3-1990

**AMERICAN NATIONAL STANDARD  
MANUALLY-PROPELLED  
ELEVATING AERIAL PLATFORMS**

Secretariat  
**Scaffold Industry Association, Inc.**

Approved February 9, 2006  
**American National Standards Institute, Inc.**

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# CONTENTS

SECTION	PAGE
1. Scope, Purpose, and Application .....	1
1.1 Scope .....	1
1.1.1 Equipment Covered .....	1
1.1.2 Effective Dates .....	1
1.1.3 Equipment Not Covered .....	1
1.2 Purpose .....	1
1.3 Application .....	2
2. Referenced and Related American National Standards .....	2
2.1 Referenced American National Standards .....	2
2.2 Other Referenced Standards and Regulations .....	2
2.3 Related American National Standards .....	2
2.4 Referenced Scaffold Industry Association Publication(s) .....	3
2.5 Related Scaffold Industry Association Publication(s) .....	3
3. Definitions .....	3
4. Responsibilities of Manufacturers .....	5
4.1 Basic Principles .....	5
4.2 Structural Safety Factors .....	5
4.2.1 Ductile Elements .....	5
4.2.2 Nonductile Elements .....	5
4.2.3 Structural Safety Factor .....	5
4.3 Wire Rope or Chain .....	5
4.4 Bursting Safety Factors .....	6
4.5 Welding Standards .....	6
4.6 Electrical Wiring and Equipment .....	6
4.7 Rated Work Load .....	6
4.7.1 Multiple Ratings.....	6
4.8 Stability Testing .....	6
4.8.1 Horizontal Load Test .....	6
4.8.2 Vertical Load Test .....	6
4.8.3 Stability on Slope .....	6
4.8.4 Stability Procedures .....	6

4.9	Interlock Requirements .....	7
4.10	Level Indicator .....	7
4.11	Controls .....	7
4.11.1	Controls for Manually Elevated Platforms .....	7
4.11.2	Controls for Power Elevated Platforms .....	7
4.11.2.1	Upper Controls .....	7
4.11.2.2	Emergency Lowering .....	7
4.11.2.3	Emergency Stop Device .....	7
4.11.2.4	Control System Protection .....	7
4.11.2.5	Security .....	7
4.12	Platforms .....	7
4.12.1	Width, Length, and Surface .....	7
4.12.2	Guardrail Systems Controls for Power Elevated Platforms .....	7
4.12.2.1	Flexible Materials .....	7
4.12.2.2	Toprail .....	7
4.12.2.3	Midrail .....	7
4.12.2.4	Structural Integrity .....	7
4.12.3	Toeboards .....	8
4.12.4	Access .....	8
4.12.5	Anchorage(s) for Personal Fall Protection .....	8
4.13	Brakes Lateral Motion .....	8
4.14	Power System .....	8
4.14.1	Fuel and Exhaust .....	8
4.14.2	Batteries Protection and Inspection .....	8
4.15	System Protection .....	8
4.15.1	Electromechanical System .....	8
4.15.2	Hydraulic or Pneumatic System .....	8
4.15.3	Tension Hoist System .....	8
4.15.4	Platform Beyond Base .....	8
4.15.5	Outrigger and Stabilizers .....	9
4.16	Personal Protection .....	9
4.17	Quality Control .....	9
4.18	Proof Test .....	9
4.19	Instructions and Markings .....	9

4.20 Operating and Maintenance Manuals .....	9
4.21 Weather-Resistant Storage .....	10
4.22 Repair and Parts Manual .....	10
4.23 Training Information and Materials .....	10
4.24 Manufacturer as Dealer .....	10
5. Responsibilities of Dealers .....	10
5.1 Basic Principles .....	10
5.2 Manuals .....	10
5.2.1 Machine Manual(s) .....	10
5.2.2 Manual of Responsibilities .....	10
5.3 Predelivery Preparation .....	10
5.4 Maintenance, Inspection and Repair .....	10
5.4.1 Maintenance .....	10
5.4.2 Inspection .....	10
5.4.3 Repairs .....	10
5.5 Maintenance Safety Precautions .....	10
5.6 Replacement Parts .....	11
5.7 Training .....	11
5.8 Familiarization upon Delivery .....	11
5.9 Dealer as a User .....	11
5.10 Assistance to Owners and Users .....	11
5.11 Record Retention and Dissemination .....	11
5.11.1 Record Retention .....	11
5.11.2 Proof of Training .....	11
5.11.3 Record Dissemination .....	12
5.12 Modifications .....	12
5.13 Manufacturer's Safety Bulletins .....	12
5.14 Responsibilities upon Sale .....	12
6. Responsibilities of Owners .....	12
6.1 Basic Principles .....	12
6.2 Responsibilities Upon Purchase .....	12
6.3 Manuals .....	12
6.3.1 Machine Manual(s) .....	12
6.3.2 Manual of Responsibilities .....	12

6.4 Maintenance, Inspection and Repair .....	12
6.4.1 Maintenance .....	12
6.4.2 Inspection .....	13
6.4.3 Repairs .....	13
6.5 Predelivery Preparation .....	13
6.6 Frequent Inspection .....	13
6.7 Annual Inspection .....	13
6.8 Maintenance Safety Precautions .....	13
6.9 Replacement Parts .....	13
6.10 Maintenance Training .....	13
6.11 Training .....	14
6.11.1 Operator Training .....	14
6.11.2 Assistance to Users .....	14
6.12 Familiarization upon Delivery .....	14
6.13 Operation .....	14
6.14 Assistance to Users and Operators .....	14
6.15 Record of Dissemination .....	14
6.15.1 Record Retention .....	14
6.15.2 Proof of Training .....	14
6.15.3 Record Dissemination .....	14
6.16 Modification .....	15
6.17 Manufacturer's Safety Bulletins .....	15
6.18 Responsibilities upon Sale .....	15
7. Responsibilities of Users .....	15
7.1 Basic Principles .....	15
7.2 Manuals .....	15
7.2.1 Machine Manual(s) .....	15
7.2.2 Manual of Responsibilities .....	15
7.3 Inspection and Maintenance .....	15
7.3.1 Frequent Inspection .....	15
7.3.2 Annual Inspection .....	15
7.3.3 Prestart Inspection .....	15
7.3.4 Maintenance Safety Precautions .....	16
7.4 Replacement Parts .....	16

7.5 Maintenance Training .....	16
7.6 Operator Training and Retraining .....	16
7.6.1 Trainee Records .....	16
7.7 Familiarization Before Use .....	16
7.8 Work Place Inspection .....	16
7.9 Determination of Hazardous Locations .....	16
7.10 Operator Warnings and Instruction .....	17
7.11 User as Operator .....	18
7.12 Assistance to Operator .....	19
7.13 Shutdown of Aerial Platform .....	19
7.14 Record Retention and Dissemination .....	19
7.14.1 Record Retention .....	19
7.14.2 Record Dissemination .....	19
7.14.3 Proof of Training .....	19
7.15 Modifications .....	19
7.16 Manufacturer's Safety Bulletins .....	19
8. Responsibilities of Operators .....	19
8.1 Basic Principles .....	19
8.2 Manuals .....	19
8.2.1 Machine Manual(s) .....	19
8.2.2 Manual of Responsibilities .....	20
8.3 Prestart Inspection .....	20
8.4 Problems or Malfunctions .....	20
8.5 Training, Retraining, and Familiarization .....	20
8.5.1 General Training .....	20
8.5.2 Retraining .....	20
8.5.3 Familiarization .....	20
8.6 Before Operation .....	20
8.7 Workplace Inspection .....	20
8.8 Prior to Each Elevation .....	21
8.9 Understanding of Hazardous Locations .....	21
8.10 Operator Warning and Instructions .....	21
8.11 Record of Training .....	23
9. Responsibilities of Lessors .....	23

9.1 Basic Principles .....	23
9.2 Lessor as a Dealer .....	23
9.3 Lessor as an Owner .....	23
9.4 Lessor as a User .....	23
9.5 Lessor as an Operator .....	23
10. Responsibilities of Lessees .....	23
10.1 Basic Principles .....	23
10.2 Lessee as a Dealer .....	23
10.3 Lessee as an Owner.....	23
10.4 Lessee as a User .....	23
10.5 Lessee as an Operator .....	23
11. Responsibilities of Broker .....	24
11.1 Responsibilities upon Sale .....	24
11.2 Responsibilities upon Re-rent, Lease, or any other form of Beneficial Use.....	24

**Foreword** This Foreword is not part of American National Standard for Manually Propelled Elevating Aerial Platforms, ANSI/SIA A92.3-2006.

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 accident associated with the use of Manually propelled elevating aerial platforms by establishing requirements for design, manufacture, maintenance, performance, use and training.

This revision to ANSI/SIA A92.3 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 Aerial Platforms Committee had the following members.

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Altec Hi Line.....	Gary Werkhoven
Altec Industries.....	Bryan D. Player
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Brewington & Company.....	John J. Brewington
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	Louis Haak

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|---|---|
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| Byron G. Adkins, Sunbelt Rentals          | Les Knoll, Packer Engineering Inc.              |
| Salah Beji, Pinguley-Haulotte             | Evaldas Latvys, Evaldas Latvys Consulting Engr. |
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| Barris Evulich, Evulich & Associates      | Richard Stollery, GAR Equipment                 |
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| Herb Johnson, Missouri AFL/CIO            |   |
| Garvin Branch, USDOL/OSHA                 |   |
| Kent H. Jorgensen, IATSE Motion Picture   |   |

# American National Standard for Manually Propelled Elevating Aerial Platforms

## 1. Scope, Purpose, and Application

### 1.1 Scope

**1.1.1 Equipment Covered.** This standard applies to manually 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. Platforms are adjustable by manual or powered means and shall not be occupied when moved horizontally. (See Figure 1 for examples.)

**1.1.2 Effective Dates.** The standard will become 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/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, owner's 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.** This standard does not apply to the equipment listed below:

(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-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) Self-propelled elevating aerial platforms such as those covered in American National Standard for Boom-Supported Elevating Work Platforms, ANSI A92.5-2006

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

(6) Safety requirements for airline ground support vehicle-mounted vertical lift devices, American National Standard for Airline Ground Support Vehicle-Mounted Vertical Lift Devices; 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

(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 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 A10.31-1995

**1.2 Purpose.** This standard applies to manually 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, testing, performance, inspection, training, maintenance and operation
- (3) Establishment and understanding by designers, manufacturers, dealers, owners, operators, users, lessors, lessees, and brokers of their respective responsibilities

**1.3 Application.** The rapid development of a wide variety of elevating aerial platform designs necessitates the establishment of standards for their design, manufacture, maintenance, inspection, testing, training, performance, and use.

Elevating aerial platforms are generally intended for use over level surfaces. Normally, they are not insulated for use near electrically energized circuits nor are they intended to be used in hazardous locations. Any manually propelled aerial platform intended for use around electrically energized circuits shall meet the electrical requirements of ANSI 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

**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 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 70-2005, 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:

SAE J821-1985 for Electrical Systems For Construction, Agricultural, 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/SIA A92.2-2001, Vehicle-Mounted Elevating and Rotating Aerial Devices

ANSI A92.5-2006, Boom-Supported Elevating Work 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 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 A120.1-1996, 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 A92.3-2006 Manual of  
Responsibilities for Dealers, Owners, Users,  
Operators, Lessors, Lessees, and Brokers of  
Manually Propelled Elevating Aerial  
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 A92.5-2006 Manual of  
Responsibilities for Dealers, Owners, Users,  
Operators, Lessors, and Lessees, of Boom-  
Supported 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 A92.9-1993 Manual of  
Responsibilities for Dealers, Owners, Users,  
Operators, Lessors, Lessees, and Brokers of  
Mast Climbing Work Platforms.

## 3. Definitions

**Aerial platform.** A manually propelled  
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.

**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