

**ANSI/SIA A92.8 – 2012**

AMERICAN NATIONAL STANDARD

for

**Vehicle-Mounted Bridge  
Inspection and Maintenance  
Devices**



**American National Standards Institute**  
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The design and manufacturing requirements of this standard apply to all mast-climbing work 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.

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Revision of  
ANSI A92.8-2006

AMERICAN NATIONAL STANDARD  
for VEHICLE-MOUNTED BRIDGE INSPECTION AND  
MAINTENANCE DEVICES

Secretariat  
Scaffold Industry Association, Inc.

Approved March 5, 2012  
American National Standards Institute, Inc

## **AMERICAN NATIONAL STANDARD**

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## FOREWORD

This foreword is not part of American National Standard for Vehicle-Mounted Bridge Inspection and Maintenance Devices, ANSI/SIA A92.8-2012.

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 Mast-Climbing Work Platforms by establishing requirements for design manufacture, installation, maintenance, performance, use and training.

### Interpretations and Suggestions for Improvement

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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.

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This Standard was processed and approved for submittal to ANSI by Accredited Standards Committee Aerial Platforms, A92 Aerial Work Platforms. 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 Work Platforms Committee had the following members:

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# American National Standard For Vehicle-Mounted Bridge Inspection and Maintenance Devices

**1 Introduction.** Mobile units covered by this standard are generally designed to be supported on bridge surfaces of varying degrees of grade and super-elevation and have the capability of providing personnel quick and easy access to the underside of such structures.

The rapid development of a wide variety of trailer and truck-mounted mobile unit designs necessitates the establishment of standards for their design, manufacture, remanufacture, installation, performance, inspection, training, maintenance, testing and use.

Normally, they are not insulated for use near electrically energized apparatus nor are they intended to be used in hazardous locations. Any mobile unit intended for use around energized electrical apparatus shall be designed, manufactured, and used in accordance with the requirements outlined in ANSI/SIA A92.2-2009, Vehicle-Mounted Elevating and Rotating Aerial Devices.

The operation of any mobile unit 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 Scope, Purpose and Requirements

### 2.1 Scope

**2.1.1 Equipment covered.** This Standard applies to mobile units capable of positioning a platform alongside or beneath a bridge deck or equivalent structure while being supported from such structure and are used to position personnel, along with their necessary tools and materials, at work locations. Typical examples of this type of equipment are shown in Figure 1 on page 48.

**2.1.2 Equipment not covered.** The scope of this standard does not include the following equipment:  
Ladder and ladder stands such as those covered in American National Standards for Ladder and Ladder Stands, ANSI A14 series  
Scaffolding such as those covered in American National Standard for Scaffolding Safety Requirements, ANSI A10.8-2001  
Vehicle and trailer mounted Elevating and Rotating Mobile units such as those covered in American National

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

Non-self-propelled elevating mobile unit such as those covered in American National Standard for Manually Propelled Elevating Aerial Platforms, ANSI/SIA A92.3-2006

Self-propelled elevating mobile units such as those covered in American National Standard for Boom-Supported Elevating Work Platforms, ANSI/SIA A92.5-2006 and

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

Vehicle-mounted vertical lift devices such as those covered in American National Standard for Airline Ground Support Vehicle-Mounted Vertical Lift Devices, ANSI/SIA A92.7-1990 (Reaffirmed 1998)

Mast climbing work platforms such as those covered in American National Standard for Mast Climbing Work Platforms, ANSI/SIA A92.9-2011

Suspended powered platforms for exterior building maintenance such as those covered in Suspended Power Platforms for Exterior Building Maintenance, ANSI A120.1-2008

Vertically adjustable equipment used primarily to raise and lower materials and equipment from one elevation to another as in ANSI A17, B30, and B56 series

Fire fighting equipment such as covered in Automotive Fire Apparatus ANSI/NFPA 1901-2009

Construction and demolition digger derricks such as those covered in American National Standard for Construction and Demolition Safety Requirements, Definitions, and Specifications, ANSI A10.31-2006

Mobile and Locomotive Truck Cranes, ANSI/ASME B30.5-2007 with Supplements "A" and "B"

Personnel carrying attachments associated with cranes such as those covered in ANSI/ASME B30.23-2005

Personnel Lifting (platforms attached to the crane boom or suspended by hooks).

**2.2 Purpose.** This Standard applies to the establishment of criteria for design, manufacture, remanufacture, rebuild/recondition, testing, inspection, installation, maintenance, use, training, and operation of Vehicle-Mounted Bridge Inspection and Maintenance Devices, primarily used to position personnel, to achieve the following objectives:

(1) Prevention of personal injuries and accidents;