

ANSI/SAIA A92.20 – 2020

**Design, Calculations,  
Safety Requirements and  
Test Methods**

*for*

**Mobile Elevating Work Platforms  
(MEWPs)**



Additional information on ANSI/SAIA A92.20-2020  
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**ANSI/SAIA  
A92.20-2020**

**AMERICAN NATIONAL STANDARD  
establishing  
DESIGN, CALCULATIONS,  
SAFETY REQUIREMENTS  
and TEST METHODS  
for MOBILE ELEVATING  
WORK PLATFORMS (MEWPs)**

Secretariat  
**Scaffold & Access Industry Association, Inc.**

Approved: May 7, 2020  
**American National Standards Institute, Inc.**

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## **Foreword** (This foreword is not part of American National Standard for A92.20-2020.)

This standard is one of a series on Mobile Elevating Work Platforms developed under the committee procedures of the American National Standards Institute. The accredited A92 standards committee was organized by the Institute in 1948. The Scaffold & Access Industry Association Inc. serves as Secretariat.

The primary objective of this standard is to define rules for safeguarding persons and objects against the risk of accident associated with the operation of mobile elevating work platforms (hereafter referred to as MEWPs).

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### **Erratum to A92.20-2018**

Reference: Table 3— Performance Levels for Safety Devices     *Updated December 19, 2018*

The A92.20 Subcommittee notes editorial errors in the 2018 edition of ANSI/SAIA A92.20, Standard Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs). Paragraph of Standard References were replaced with the correct references, and duplicated descriptions or descriptions that did not reference back to the standard, were removed from the Descriptions Safety Function.

### **Revisions to A92.20-2020**

The ANSI/SAIA A92.20-2020 contains revisions to eliminate Commercial Term Violations. Further clarification on the revisions can be found at [www.saiaonline.org/a92](http://www.saiaonline.org/a92).

This Standard was processed and approved for submittal to ANSI by Accredited Standards Committee A92 - Aerial Platforms. The ASC A92 Main Committee's 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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Contents Section.....	Page
1. Scope and Purpose .....	2
1.1 Scope .....	2
1.2 Purpose .....	2
1.3 Applicability .....	2
1.4 Exclusions .....	3
1.5 Measurement .....	3
2. Referenced and Related American National Standards and Related Publications .....	3
2.1 Referenced American National Standards.....	3
2.2 Other Referenced Documents .....	4
3. Definitions.....	4
4. Safety Requirements and/or Protective Measures .....	11
4.1 Compliance .....	11
4.2 Structural and Stability Calculations .....	11
4.2.1 Calculations and Rated Load .....	11
4.2.2 Loads and Forces Acting on MEWP Structure.....	12
4.2.2.1 General .....	12
4.2.2.2. Forces Created by Rated Load and Structural Masses.....	12
4.2.2.3 Load Distribution on Work Platform .....	12
4.2.2.4 Wind Forces .....	13
4.2.2.4.1 Outdoor MEWPs.....	13
4.2.2.4.2 Shape Factors Applied to Surfaces Exposed to Wind .....	14
4.2.2.4.3 Surface Area of Persons on a Work Platform Exposed to Wind.....	14
4.2.2.4.4 Tools and Equipment on Work Platform Exposed to Wind .....	14
4.2.2.5 Manual Forces .....	14
4.2.2.6 Special Loads and Forces .....	14
4.2.3 Stability Calculations .....	15
4.2.3.1 Forces Created by Structural Masses and Rated Load.....	15
4.2.3.2 Wind Forces .....	15
4.2.3.3 Manual Forces .....	15
4.2.3.4 Special Loads and Forces .....	15
4.2.3.5 Calculation of Overturning and Stabilizing Moments .....	15
4.2.4 Structural Calculations.....	22
4.2.4.1 General .....	22
4.2.4.2 Analysis.....	23
4.2.4.2.1 General Stress Analysis .....	23
4.2.4.2.2 Elastic Stability Analysis.....	23
4.2.4.2.3 Fatigue-Stress Analysis.....	23
4.2.4.2.4 Effects of Stress Concentration and Ambient Temperature .....	24
4.2.5 Verification .....	24
4.3 Chassis and Stabilizing Devices .....	24
4.3.1 Automatic Safety Device .....	24
4.3.2 Chassis Inclination.....	24
4.3.3 Locking Pins .....	25
4.3.4 Control Bars.....	25
4.3.5 Control Bars Held in Vertical Position .....	25
4.3.6 Stabilizing Device Feet.....	25
4.3.7 Permitted Work Platform Positions.....	25
4.3.8 Prevention of Powered Stabilizing Device Movement.....	25
4.3.9 Manually Operated Stabilizing Devices.....	26
4.3.10 Movement of Stabilizing Devices .....	26

4.3.11 Hourmeter.....	26
4.3.12 Control Positions .....	26
4.3.13 Totally Manually Operated MEWPs .....	26
4.3.14 Oscillating Axle Lock or Control Systems.....	27
4.3.15 Self-Propelled MEWP Brakes.....	27
4.3.16 Unauthorized Use.....	27
4.3.17 Maximum Travel Speeds in Elevated Travel Position.....	27
4.3.18 Stopping Distances.....	28
4.3.19 Maximum Travel Speed of Pedestrian-Controlled MEWPs .....	28
4.3.20 Engine Exhaust .....	28
4.3.21 Filling Points for Fluids .....	28
4.3.22 Battery Constraint.....	29
4.3.23 Derailment and Run-Away Prevention .....	29
4.3.23.1 General .....	29
4.3.23.2 Proof Against Derailment.....	29
4.3.23.3 Load Cases for Prevention of Derailment During Moving .....	29
4.3.23.4 Limiting Use of MEWPs Due to Derailment Requirements .....	30
4.3.23.5 Prevention of Run-Away — Placement and Removal from Rails.....	30
4.4 Extending Structure.....	30
4.4.1 Methods to Avoid Overturning and Exceeding Permissible Stresses .....	30
4.4.1.1 General .....	30
4.4.1.2 Load-Sensing System.....	30
4.4.1.3 Position Control.....	31
4.4.1.3.1 General.....	31
4.4.1.3.2 Mechanical Limiting Devices .....	31
4.4.1.3.3 Non-Mechanical Limiting Devices .....	31
4.4.1.4 Moment-Sensing System.....	31
4.4.1.5 Criteria for Enhanced Stability for Limited Work Platform Dimensions.....	32
4.4.1.6 Criteria for Enhanced Overload for Limited Work Platform Dimensions.....	32
4.4.1.7 Variable Working Envelope with More Than One Rated Load .....	32
4.4.1.8 Variable Working Envelope with One Rated Load.....	33
4.4.1.9 Verification .....	33
4.4.2 Sequencing of Extending Structure .....	33
4.4.3 Trapping and Shearing .....	33
4.4.4 Supporting Extending Structure for Routine Maintenance .....	33
4.4.5 Speeds of Extending Structure.....	33
4.5 Extending Structure Drive Systems .....	34
4.5.1 General .....	34
4.5.1.1 Unintended Motion.....	34
4.5.1.2 Protection of Extending Structure from Power Sources .....	34
4.5.1.3 Failure of Transmission Chain or Belt.....	34
4.5.1.4 Kick-Back of Handles.....	34
4.5.1.5 Powered and Manual Drive Systems for the Same Function .....	34
4.5.1.6 Braking System for All Drives .....	35
4.5.2 Wire-Rope Drive Systems .....	35
4.5.2.1 Wire-Rope Drive System Safety .....	35
4.5.2.1.1 General.....	35
4.5.2.1.2 Mechanical Safety Device .....	35
4.5.2.1.3 Additional Wire-Rope Drive System .....	35
4.5.2.2 Load-Carrying Wire Ropes .....	36
4.5.2.3 System of Multiple Wire Ropes.....	36
4.5.2.4 Re-tensioning Wire Ropes .....	36
4.5.2.5 Terminations of Wire Ropes .....	36
4.5.2.6 Visual Examination of Wire Rope Terminations .....	37

4.5.2.7 Safety Device for MEWP Work Platforms Raised and Lowered by Wire Ropes.....	37
4.5.2.8 Rope Drum Grooves and Prevention of Rope Leaving the Ends of the Drum .....	37
4.5.2.9 Layers of Rope.....	37
4.5.2.10 Turns of Rope .....	37
4.5.2.11 Fastening Rope to Drum.....	37
4.5.2.12 Unintentional Displacement of Rope .....	37
4.5.2.13 Drum and Sheave Grooves .....	38
4.5.3 Chain Drive Systems .....	38
4.5.3.1 Limit of Vertical Movement in Case of Failure .....	38
4.5.3.1.1 General.....	38
4.5.3.1.2 Single-Chain Drive Systems.....	38
4.5.3.1.3 Two-Chain Drive Systems .....	38
4.5.3.2 Multiple Chains Attached to a Point.....	39
4.5.3.3 Tensioning Chains .....	39
4.5.3.4 Strength of Junction Between Chain and Termination .....	39
4.5.3.5 Visual Examination of Chains and Terminations .....	39
4.5.3.6 Safety Device for MEWP Work Platforms Raised and Lowered by Chains .....	39
4.5.3.7 Unintentional Displacement of Chain.....	39
4.5.4 Lead-Screw Drive Systems .....	39
4.5.4.1 Lead-Screw and Nut Design Stress and Material.....	39
4.5.4.2 Separation of Lead Screw from Work Platform .....	39
4.5.4.3 Load-Bearing Nut and Safety Nut.....	40
4.5.4.4 Detection of Wear on Nuts .....	40
4.5.5 Rack and Pinion Drive Systems .....	40
4.5.5.1 Design Stress of Racks and Pinions.....	40
4.5.5.2 Safety Device and Over-Speed Governor .....	40
4.5.5.3 Device to Prevent Pinion Disengagement .....	40
4.5.5.4 Visual Examination of Pinions.....	40
4.6 Work Platform .....	40
4.6.1 Level of Work Platform .....	40
4.6.2 Work Platform Materials .....	41
4.6.3 Guardrail (Protection) Systems .....	41
4.6.4 Anchorage(s) .....	41
4.6.5 Openings in Guardrails for Entrance and Exit.....	41
4.6.5.1 General .....	41
4.6.5.2 Special-Purpose Work Platforms .....	41
4.6.6 Floor of Work Platform.....	42
4.6.7 Chains or Ropes .....	42
4.6.8 Access Ladder .....	42
4.6.9 Handholds and Handrails .....	42
4.6.10 Trapdoors .....	42
4.6.11 Audible Warning Device .....	42
4.6.12 Means of Communication.....	42
4.6.13 Mechanical Stops .....	43
4.6.14 Work Platforms Constructed from Non-Conductive Materials.....	43
4.7 Controls .....	44
4.7.1 Activation and Operation .....	44
4.7.2 Direction of Movement.....	44
4.7.3 Location, Accessibility, Protection and Selection among Duplicate Controls .....	44
4.7.4 Emergency Stops .....	45
4.7.5 Electrical Switches.....	45
4.7.6 Pilot and Solenoid Valves.....	45
4.7.7 Restoration of Power after Failure.....	45
4.7.8 Overriding Emergency System.....	45

4.7.9 Speed Restriction .....	45
4.7.10 Automatic or Programmed Operation.....	46
4.8 Electrical Equipment .....	46
4.8.1 Relevant Norms and Standards .....	46
4.8.2 Main Power Disconnect/Security.....	46
4.8.3 Cables.....	46
4.8.4 Battery Protection .....	46
4.8.5 Ingress of Water .....	46
4.8.6 Electromagnetic Compatibility (EMC).....	47
4.9 Hydraulic Systems .....	47
4.9.1 Pressure-Limiting Device.....	47
4.9.2 Strength of Pipes and Connections.....	47
4.9.3 Bursting Strength of Hoses and Fittings.....	47
4.9.4 Pressure Rating of Other Components .....	47
4.9.5 Gauge Connections.....	47
4.9.6 Venting of Air .....	47
4.9.7 Inlet Filter.....	48
4.9.8 Fluid Level Indicators.....	48
4.9.9 Fluid Cleanliness .....	48
4.9.10 Gas-Loaded Accumulators .....	48
4.10 Hydraulic Cylinders .....	48
4.10.1 Structural Design .....	48
4.10.1.1 General .....	48
4.10.1.2 Normal Operating Conditions.....	48
4.10.1.2.1 Buckling .....	48
4.10.1.2.2 Constructional Details .....	49
4.10.1.2.3 Conditions Causing Pressure above Pressure-Limiting Device Pressures .....	49
4.10.1.3 Failure Conditions .....	52
4.10.1.3.1 Oil Leaking Past Piston Seals .....	52
4.10.1.3.2 Several Cylinders Operating the Same Mechanism .....	53
4.10.2 Prevention of Unintended Movement of Load-Holding Cylinders .....	53
4.10.3 Verification .....	53
4.11 Safety Devices .....	53
5. Verification of the Safety Requirements and/or Measures .....	55
5.1 Examinations and Tests .....	55
5.1.1 General .....	55
5.1.2 Design Check.....	55
5.1.3 Manufacturing Check .....	55
5.1.4 Tests.....	56
5.1.4.1 Dynamic Fall Arrest Anchorage Test.....	56
5.1.4.2 Stability Tests .....	57
5.1.4.2.1 Static Tests .....	57
5.1.4.2.2 Dynamic Tests on Types 2 and 3 MEWPs.....	58
5.1.4.2.2.1 General .....	58
5.1.4.2.2.2 Curb and Depression Tests .....	60
5.1.4.2.2.3 Braking Tests .....	61
5.1.4.3 Overload Test .....	62
5.1.4.4 Functional Tests .....	63
5.1.4.5 Underbridge MEWP Overload and Stability Tests .....	63
5.2 Type Tests .....	63
5.3 Production MEWP Tests .....	64

6. Information for Use .....	64
6.1 General .....	64
6.2 Operator's Manual .....	64
6.2.1 Content.....	64
6.2.2 Modifications .....	65
6.3 Parts and Service Manuals.....	65
6.4 Marking .....	65
6.4.1 General .....	65
6.4.2 Manufacturer's Plate .....	65
6.4.3 Work Platform .....	66
6.4.4 Multiple Rated Loads .....	67
6.4.5 Emergency Systems .....	67
6.4.6 Work Platform Rated Loads.....	67
6.4.7 MEWPs Designed for Indoor Use Only.....	67
6.4.8 External Power Supply Connections.....	67
6.4.9 Detachable Parts.....	67
6.4.10 Instructions.....	68
6.4.11 Projecting Extremities .....	68
6.4.12 Wheel/Stabilizing Device Load .....	68
6.4.13 Tire Pressure.....	68
6.4.14 Maintenance.....	68
6.4.15 Stabilizing Device Use .....	68
6.4.16 Pressurized Vessel .....	68
6.4.17 Annual Inspection.....	68

Appendixes (Informative) .....	Page
Appendix A	
Calculation of Wire Rope Drive Systems .....	69
Appendix B	
Calculation Example — Wire Rope Drive Systems .....	76
Appendix C	
Curb Test Calculations .....	82
Appendix D	
Additional Requirements for Wireless Controls and Control Systems.....	85
Appendix F	
MEWP Classifications .....	87

## **Introduction**

This American National Standard is one of a series of standards produced by ANSI/SAIA A92 as part of its program of work regarding standardization of terminology, ratings, general principles (technical performance requirements and risk assessment), safety requirements, test methods, maintenance and operation for elevating work platforms used to raise (elevate) and position personnel (and related work tools and materials).

This Standard, ANSI/SAIA A92.20, along with companion Standards ANSI/SAIA A92.22 and ANSI/SAIA A92.24, have been developed to replace existing Standards ANSI/SAIA A92.3, ANSI/SAIA A92.5, ANSI/SAIA A92.6 and ANSI/SAIA A92.8. The reasoning that led to the development of these three new Standards was: to combine the requirements for MEWPs exhibiting similar configuration and application; to more closely harmonize with existing ISO Standards; and to more closely relate to a specific audience.

The objective of this American National Standard is to define principles of design, safety requirements and methods for verifying these safety requirements for mobile elevating work platforms (MEWPs). A MEWP is the product of activities that include design, production and testing to provide information on the MEWP.

This American National Standard does not repeat all the general technical rules applicable to every electrical, mechanical or structural component. Its safety requirements have been drawn up on the basis that MEWPs are periodically maintained according to given instructions, working conditions, frequency of use and national or other regulations. It is assumed that MEWPs are checked for function before start of work, whether used daily or seldom used, and are not put into operation unless all the required control and safety devices are available and in working order. Where, for clarity, an example of a safety measure is given in the text, it is not intended as the only possible solution. Any other solution leading to the same risk reduction is permissible if an equivalent level of safety is achieved.

# American National Standard Establishing Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs)

## 1. Scope and Purpose

### 1.1 Scope

**1.1.1** This American National Standard specifies safety requirements and preventive measures, and the means for their verification, for certain types and sizes of mobile elevating work platforms (MEWPs) Intended to position personnel, along with their necessary tools and materials, at work locations. It contains the structural design calculations and stability criteria, construction, safety examinations and tests that shall be applied before a MEWP is first put into service.

#### 1.1.2 Effective Dates

This standard is effective June 1, 2020 as follows:

##### 1.1.2.1 Design, Manufacture and Remanufacture Requirements

- The design and manufacturing requirements of this Standard shall apply to all MEWPs manufactured/remanufactured on or after the effective date; and
- MEWPs manufactured/ remanufactured on or after the effective date shall comply with the requirements of this Standard.

##### 1.1.2.2 Rebuild/Reconditioned Requirements

Rebuilt/reconditioned MEWPs shall comply with the Standards in effect as of the date of their original manufacture.

### 1.2 Purpose

**1.2.1** This Standard is intended to serve as a guide for manufacturers, remanufacturers, engineers and designers of MEWPs to achieve the following objectives:

- a) prevention of accidents and personal injuries;
- b) establishment of criteria for design, manufacture, remanufacture, rebuild/recondition, testing and performance; and
- c) establishment and understanding by manufacturers, remanufacturers, engineers, and designers of their responsibilities.

### 1.3 Applicability

This American National Standard is not applicable to:

- a) permanently installed personnel-lifting appliances serving defined levels;