



**CSA  
Group**

**B354.13-17/B354.14-17**

**Safe use and best practices for mast  
climbing transport platforms (MCTPs)/  
Training for mast climbing transport  
platforms (MCTPs)**



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# Preface

This is the first edition of CSA B354.13/B354.14, *Safe use and best practices for mast climbing transport platforms (MCTPs)/Training for mast climbing transport platforms (MCTPs)*.

With respect to design and manufacturing criteria, these Standards are closely harmonized with the equivalent ANSI A92.10, *Elevating work platforms — Mast-climbing transport platforms*.

This Standard was prepared by the Technical Committee on Elevating Transport Platforms, under the jurisdiction of the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

## Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
  - 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
  - 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
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    - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*
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    - a) *Standard designation (number);*
    - b) *relevant clause, table, and/or figure number;*
    - c) *wording of the proposed change; and*
    - d) *rationale for the change.*

*B354.13-17*

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(MCTPs)***



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# B354.13-17

## ***Safe use and best practices for mast climbing transport platforms (MCTPs)***

### **1 Scope**

#### **1.1 General**

##### **1.1.1**

This Standard applies to mast-climbing transport platforms (MCTPs) that are considered tools of the trade and are used to vertically transport material and authorized persons to specified access levels on a structure during construction, renovation, maintenance, and related activities. The platform operates at a limited speed and minimum safe distance from the structure.

This Standard specifies particular safety requirements for mast climbing transport platforms (MCTP).

##### **1.1.2**

This Standard applies to transport platforms with a combination of the following:

- a) one or more masts;
- b) masts that are tied or untied;
- c) masts of fixed or variable length;
- d) masts that are vertical or inclined between 0° and 30° to the vertical;
- e) masts which are standing or hanging;
- f) platforms with a movable or static base (chassis or base frame);
- g) platforms with a mechanical drive system using rack and pinion, screw drive, or ratchet drive system;
- h) platforms that are driven using electric, hydraulic, or internal combustion engines; and
- i) platforms that have an elevating mechanism that is manually or power operated. Raising and lowering speeds are limited to a maximum of 0.20 m/s (0.8 ft/s).

#### **1.2 Purpose**

The purpose of this Standard is to specify the minimum requirements for the establishment of criteria for the safe use and best practices in order to achieve the following objectives:

- a) assist in the prevention of personal injuries and accidents;
- b) uniformity in ratings; and
- c) understanding by manufacturers, dealers, installers, maintenance personnel, operators, owners, and users of their respective responsibilities.

MCTPs are generally intended to be set up on level surfaces. Normally, they are not insulated for use near electrically energized circuits, nor are they intended to be used in hazardous locations. The operation of any transport platform is subject to certain hazards that can only be protected against by having competent, careful personnel trained in the intended use, safe operation, maintenance, and service of this type of equipment.

Also, the provisions of this Standard are not intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety to those prescribed by this Standard, provided that there is technical documentation to demonstrate the equivalency of the system, method, or device.

**Note:** *Authorities having jurisdiction might permit variations to this Standard provided that technical documentation or physical performance verification can assure the safety equivalence of such modifications to the corresponding requirements of this Standard.*

### 1.3 Application

This Standard should be used to guide a qualified trainer for the safe uses and best practices related to a MCTP.

This Standard identifies the hazards arising during the various phases in the life of such equipment and describes the methods for elimination or reduction of these hazards.

This Standard does not specify the requirements for dealing with the hazards involved in the maneuvering, erecting or dismantling, fixing, or removing of any materials which are not part of the MCTP. It also does not deal with the handling of specific hazardous materials.

### 1.4 Equipment not covered

This Standard does not apply to:

- a) mast climbing work platforms in accordance with CSA B354.9;
- b) goods hoists in accordance with CAN/CSA-Z256;
- c) passenger/goods hoists in accordance with CAN/CSA-CSA Z185;
- d) mobile elevating work platforms in accordance with CSA B354.6, CSA B354.7, and CSA B354.8;
- e) mobile cranes such as those covered in CSA Z150;
- f) permanently installed (non-mobile) elevating lifts used to transport personnel between different elevations; and
- g) firefighting equipment.

### 1.5 Terminology

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

### 1.6 Measurement

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

## 2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

### **CSA Group**

CAN/CSA-B354.1-04 (R2016)

*Portable elevating work platforms*

CAN/CSA-B354.6:17

*Mobile elevating work platforms — Design, calculations, safety requirements, and test methods*

CAN/CSA-B354.7:17

*Mobile elevating work platforms — Safety principles, inspection, maintenance and operation*

CAN/CSA-B354.8:17

*Mobile elevating work platforms — Operator (driver) training*

B354.9-17

*Design, calculations, safety requirements, and test methods for mast climbing work platforms (MCWPs)*

B354.12-17

*Design, calculations, safety requirements and test methods for mast climbing transport platforms (MCTPs)*

B354.14-17

*Training for mast climbing transport platforms (MCTPs)*

C22.1-15

*Canadian Electrical Code, Part I*

Z150-16

*Safety code on mobile cranes*

CAN/CSA-Z185-M87 (R2016)

*Safety code for personnel hoists*

CAN/CSA-Z256-M87 (R2016)

*Safety code for material hoists*

### **SAIA (Scaffold and Access Industry Association)**

ANSI/SIA A92.9-2011

*Mast-Climbing Work Platforms*

### **OSHA (Occupational Safety and Health Administration)**

OSHA 1926.451

*General requirements*