



Design of suspended access equipment



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Preface

This is the fifth edition of CSA Z271, *Design of suspended access equipment*. It supersedes the previous editions published in 2010, 1998, 1984, and 1974 under the title, *Safety code for suspended platforms*.

The major changes to this edition include the following:

- a) revisions to load requirements, factors and formulae;
- b) revisions to post-installed fastener requirements;
- c) addition of auxiliary hoisting unit loads, hour meters, and telescoping component redundancy; and
- d) revisions to davit system designs.

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

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Notes:

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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
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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.*

CSA Z271:20

Design of suspended access equipment

0 Introduction

0.1

This Standard is voluntary and represents best practice; however, it can be enforced by law when referenced in provincial, territorial, or federal legislation or regulations. This Standard is designed to be complementary to the actions of government in tackling the issue of worker safety and can provide tools to help organizations comply with regulations and to demonstrate due diligence.

0.2

The purpose of this Standard is to provide criteria for suspended access equipment with regard to

- a) benefiting the health, safety, and welfare of workers and the public;
- b) supporting sustainable development;
- c) assisting and protecting consumers;
- d) advancing the national economy; and
- e) facilitating trade.

0.3

This Standard is not intended to preempt or permit exceptions to any requirement of authorities having jurisdiction. Some references to requirements of authorities having jurisdiction are included in this Standard for information. These references are placed as informative notes separate from clause text to maintain separation between requirements of this Standard and requirements of an authority having jurisdiction. The reader should be aware that such placement does not diminish or modify any requirement by an authority having jurisdiction.

0.4

All workers requiring access to the side, ceiling or soffit of a building, or structure over 8 m (26 ft) should use an access system designed, installed, inspected, and tested in accordance with this Standard. All operations should be carried out with due regard to personal safety, the safety of others, and the prevention of damage to equipment and property. Other access systems acceptable to the authorities having jurisdiction may also be used in such a way that they do not preclude the installation of suspended access equipment.

1 Scope

1.1

This Standard specifies requirements for the design, construction, installation, inspection, testing, maintenance, alteration, and repair of suspended access equipment.