

Manufactured horizontal lifeline systems



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Preface

This is the second edition of CSA Z259.13, *Manufactured horizontal lifeline systems*. It supersedes the previous edition published in 2004 under the title of *Flexible horizontal lifeline systems*.

This Standard provides performance requirements for manufactured horizontal lifeline systems designed to arrest the accidental fall of an individual working from height.

Changes to this edition include the following:

- a) consistent use of the term horizontal lifeline system (HLL system);
- b) limiting the scope to include only those HLL systems where the energy absorber deploys to 100% or less (i.e., the energy absorber does not bottom-out);
- c) applicability of the Standard to single span HLL system only;
- d) updating of the reference publications;
- e) updating of the definitions; and
- f) revisions to the test procedures.

CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support of the Canadian government departments responsible for occupational health and safety.

This Standard was prepared by the Subcommittee on Flexible Horizontal Lifeline Systems, under jurisdiction of the Technical Committee on Fall Protection and the Strategic Steering Committee on Occupational Health and Safety, and has been formerly 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 in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.
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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.*

Z259.13-16

Manufactured horizontal lifeline systems

1 Scope

1.1

This Standard specifies requirements related to the performance, design, testing, labelling, and provision of instructions for manufactured single-span horizontal lifeline systems (HLL systems) (see Figure 1). These HLL systems are a component of a complete system for fall arrest.

1.2

This Standard does not apply to

- a) HLL systems
 - i) with span lengths greater than 18.3 m (60 ft);
 - ii) with more than one span (see Annex A);
 - iii) that support more than two workers;
 - iv) that are custom designed for limited or site-specific applications as designed in accordance with CSA Z259.16;
 - v) with slopes greater than 5° from the horizontal;
 - vi) with no horizontal lifeline energy absorber (HLEEA);
 - vii) used for travel restraint;
 - viii) used for work positioning; or
 - ix) that incorporate HLEEA that deploy more than 20% when tested as specified in Clause 8.3.2.2;
- b) guardrail or hand line systems that are made of flexible materials such as cables, chains, or ropes; or
- c) rigid horizontal lifeline systems such as track rail and beam systems.

1.3

This Standard does not cover the design of HLL system anchorages covered by CSA Z259.16.

1.4

This Standard does not address any fall-protection equipment attached to the HLL system.

1.5

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.