CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Occupational Health and Safety Products No. 99 **Effective Date: November 1, 2017**

Date: September 29, 2016 **Apply Before March 31, 2017**

Announcing: CSA Z259.12-16 Connecting components for personal fall-arrest systems (PFAS)

Class No: 7211 30, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Connecting Components - Fall Protection Devices

To purchase the Standard, visit us at www.shop.csa.ca

Who is affected?

Manufacturers of connecting components for personal fall-arrest systems (PFAS)

What do you do?

1. CSA Group Service Delivery staff will contact you to address compliance with each revision as applicable to the product designs covered in your affected Certification Reports. In addition to updates to your Certificate(s) of Compliance & Report(s), testing may be required to comply with these revisions.
2. Please respond within thirty (30) days of receiving CSA Group's "Application for CSA Certification Services" and "Quotation" communication. You must respond no later than March 31, 2017 in order to guarantee the update to your certification is completed by November 1, 2017. If testing is needed, we will inform you of the samples required.

Approvals:

CSA Z259.12-16 is part of a series of Standards on components of fall-protection systems and provides performance requirements, test methods, and requirements for marking individual components used as part of a personal fall-arrest system.

This Standard was prepared by the Subcommittee on Connecting Components, under the jurisdiction of the Technical Committee on Fall Protection and the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

Major Revisions:

See attachment 1

For questions specific to your file or products contact your CSA Group technical staff associate.
Go to http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ and enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.

For technical questions on this Certification Notice

Contact Sally Guo
by phone 416.747.2348, fax 416.747.4149
or e-mail sally.guo@csagroup.org

The standard edition or amendments announced in this Notice may be used for certification as of the date of issue of this Notice. The "Effective date" in this Notice is the date on which the current requirements, applicable to Certified products listed in the affected class numbers, expire and the standard edition or amendments announced in this Notice become the only requirements that may be used for certification.

In the event that currently certified products do not comply with the latest requirements outlined in this Notice after the "effective date", the certification of such models may be discontinued.

CSA Group

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ATTACHMENT 1

Major Revisions

Related Clauses of Z259.12-16	Revision
2 Reference publications	- Added the following standards: • CSA Z259.2.4-15 Fall arresters and vertical rigid rails • CAN/CSA Z259.2.5-12 Fall arresters and vertical lifelines • CAN/CSA-Z259.15-12 Anchorage connector • A108-13 Standard Specification for Steel Bar, Carbon and Alloy, Cold Finished - Update CAN/CSA Z259.10-06 (R2011) to CAN/CSA Z259.10-12 Full body harnesses. - Update ISO9227:2006 to 2012 Corrosion tests in artificial atmospheres – Salt spray tests.
3 Definitions	- Modified the definition of Anchorage, Connector, Self-locking gate, Soft loop, Maximum arrest force (MAF), Proof load. - Add new definitions of Captive eye, Free-fall distance, Gate, Lanyard and Roll-out.
- 4.2.3 and 4.2.5 Class II connectors - 6.3.4 Tensile testing of buckles or adjusters - 6.2.1.5 Test fixture wafers used in loading of buckles or adjusters - 7.1.1 Minimum breaking strength - Figure 27	Added a testing procedure Clause 6.3.4, Figure 27 and Clause 6.2.1.5 to specify the tensile testing method for Class II connectors -buckles or adjusters. Clause 6.3.4 was added in Clause 4.2.3, 4.2.5 and Clause 7.1.1 to refer to the test method.
- 5.1.2 Transverse body loading (static) for snap hooks and carabiners - 6.3.3 Transverse body loading of connectors (static) with gate openings greater than 25 mm (1 in) - Figure 24 Transverse body loading test fixture (static)	Clause 5.1.2 added a new requirement for Snap hooks or carabiners with a gate opening greater than 25 mm (1 in). They shall be tested to the transverse body loading (static) test. The test procedure was specified in Clause 6.3.3. Figure 24 illustrated the transverse body static loading test fixture and Clause 6.2.3.3.2 specified the wire rope test lanyard used in this test.
- 5.2.4 Transverse body loading (dynamic) for snap hooks and carabiners - 6.4.3.2 Test procedure for transverse body loading (dynamic) for connectors with gate openings greater than 25 mm (1 in) - 6.2.3.9 Determination of FFD for transverse body loading (dynamic) - Figure 26 Transverse body loading test (dynamic)	Clause 5.2.4 added a new requirement for Snap hooks or carabiners with a gate opening greater than 25 mm (1 in). They shall be tested to transverse body loading (dynamic) test. The test procedure was specified in Clause 6.4.3.2. Clause 6.2.3.9 was used to determine the Free Fall Distance in Clause 6.4.3.2. Figure 26 illustrated the transverse body loading test (dynamic) and Clause 6.2.3.3.2 specified the wire rope test lanyard used in this test.
- Sub clause 5.4.2 of Clause 5, Class I connecting components-general requirements	Added “the minor axis test requirements as specified in Clause 6.6.3” to link the requirement section to the test section.
- 6.2.1.2 and 6.2.1.3 Test fixture pins used for gate face testing and side load testing	In Clause 6.2.1.2 and 6.2.1.3, the statement of “as well as having a length the same as or wider than the face of the

	gate" was added to clarify the length of the test pin used for gate face testing as specified in Clause 6.6.1 and side load testing as specified in Clause 6.6.2.
- 6.2.1.4 Test fixture pins used for minor axis testing - Figure 16, Minor axis testing of snap hook and carabiner gates.	Clause 6.2.1.4 was added to clarify the specification of the test fixture pins used for minor axis testing in Figure 16. A tolerance ± 0.25 mm was added to pin diameter 12.5mm. Figure 16 was modified for clarification purpose.
- 6.2.2 Test fixtures	Clause 6.2.2 changed the title from "Clamping fixture" to "test fixtures".
- 6.2.3.3 Test lanyard used for the Dynamic drop test 6.4.3	- Polyester webbing test lanyard used in the previous edition of Z259.12 was removed. - Added a sub clause 6.2.3.3.2 to specify the test lanyard for transverse body loading (static and dynamic)
- 6.3.1 Tensile testing of snap hooks and carabiners - Figure 8, 9 and 21	- Clause 6.3.1 was modified to clarify the tensile load shall be applied between two bearing points along the major axis of the connector. This was illustrated in Figure 8 and 9. - Clause 6.3.1 also added a new test method for snap hooks and carabiners whose bearing point is not self-correcting towards the major axis during loading. If bearing point is not self-correcting towards the major axis during loading, then points of test in the bowl shall be at major axis, mid-point, and point furthest from major axis. Figure 21 illustrated the test.
- 6.3.2 Tensile testing of D-ring, O-ring, oval-ring, and soft loop connectors	The pass or fail criteria in Clause 6.3.2 was modified from "permanent deformation shall be acceptable. Surface cracking of metallic anchorage connectors that is visible to the unaided eye shall constitute failure" to "breakage of connector sufficient to release the load shall constitute failure".
- 6.4.2.2 Conditioning of soft loops	"The maximum surface temperature of the connection point at the time of testing shall be -5 °C (+23°F)" was removed from Clause 6.4.2.2.
- 6.4.3.1 Test procedure for class 1 components (Dynamic test)	The title of Clause 6.4.3.1 was changed from "Test procedure for components other than soft loops" to "Test procedure for class 1 components" to include the soft loop's dynamic testing procedure into this Clause. The Clause 6.4.3.2 Test procedure for soft loops in the previous edition of Z259.12 was removed.
- 6.5 Connector proof load testing	Clause 6.5 was modified to clarify all Class 1 connectors made of metal or metal alloys shall be individually proof load tested. It also added a new statement for connectors that incorporate a load indicator to allow the manufacturer to conduct the proof load test prior to incorporating the load indicator.
- 6.6.1 Gate face testing - 6.6.2 Side load testing - Figure 1 and 5	Clause 6.6.1 and 6.6.2 were modified to refer to Figure 1 and 5 for the clarification of the distance of gate separation from the connector nose.

- 6.6.3 Minor axis testing of connectors with non-captive eyes	- The title of Clause 6.6.3 was change from “Minor axis testing of snap hook and carabiner gates” to “Minor axis testing of connectors with non-captive eyes”. - Clause 6.6.3 was modified to clarify that during the test, the pin shall be positioned at the mid-point of the gate, between the nose of the connector and the fulcrum of the gate. If slippage of the pin during testing occurs than a notch may be put into the back of the connector to secure pin placement and prevent slippage.
- 6.7 Corrosion resistance testing	- Clause 6.7 was modified to include Class II component made of metal or metal alloys for Corrosion resistance testing. - Clause 6.7 was also modified to clarify that the salt spray test used is NSS (neutral salt spray) test in ISO 9227.
- 7 Class II connecting components	Clause 7.3 Stitching and 7.4 Rope splicing in the previous edition of Z259.12 were removed.
- 7.3 Surface finish	Added a new Clause 7.3 for Class II connecting component, in which the corrosion resistance requirement for Class II hardware was also added.
- 8 Marking	Marking requirements for Class I connectors - Clause 8.1.1, item e) was modified to specify that for snap hooks and carabiners without a captive eye, the Standard designation (CSA Z259.12) and year of the publication of the Standard should be marked. - Clause 8.1.1 added new requirements in item f, g, and h. - Clause 8.1.2, a) was changed from “can be used with carabiners that have 16 kN (3600 lb-f) gates” to “may be used with carabiners that have minimum 16 kN (3600 lbf) or 3.6 M gates”. Marking requirements for Class II connectors - Clause 8.2 added Marking requirements for Class II connectors.