Announcing: Extension of Effective Date for Z11-18 Portable Ladders

Class No: 7251 01, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Ladders - Metal
7251 02, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Ladders - Wooden
7251 03, OCCUPATIONAL HEALTH AND SAFETY PRODUCTS - Ladders - Fiberglass

Who is affected?
Manufacturers of portable ladders.

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 July 1, 2019 in order to guarantee the update to your certification is completed by July 1, 2020. If testing is needed, we will inform you of the samples required.

Approvals:
This is the fifth edition of CSA Z11, Portable ladders. This Standard supersedes the previous editions published in 2012, 1981, 1969, and 1967. This Standard covers design, performance, test, and marking requirements for portable ladders.

Major Revisions:
See attachment 1

For questions specific to your file or products contact your CSA Group technical staff associate.

Go to https://www.csagroup.org/testing-certification/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.
## Major Revisions

<table>
<thead>
<tr>
<th>Clause</th>
<th>Changes</th>
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<tbody>
<tr>
<td>1 Scope</td>
<td>• Clause 1.4 added trestle ladders, step ladders, step stools, tri-pod ladders, platform ladders, articulated ladders, and telescoping ladders to clarify the coverage of the scope. It also added a note to clarify that although ladder accessories themselves are not covered by this Standard, a ladder containing accessories can be certified if it meets the requirements of this Standard (see ANSI/ASC A14.8 for specific requirements for ladder accessories).&lt;br&gt;• Clause 1 scope added a new clause 1.5 to clarify that this Standard stipulates requirements for selection, care, and use of portable ladders.&lt;br&gt;Note: Telescopic Articulated Ladders are not covered under the scope of the Z11-18 Standard.</td>
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<td>3 Definitions</td>
<td>Added the following definitions:&lt;br&gt;Accessory, Articulated joint, Deflection test rung, Fully functional, Inside clear width, Articulated extendable ladder, Articulated ladder, Telescoping ladder, Tri-pod ladder, Stile, Top cap and Working load. Modified the definitions of Special-purpose ladder and Top step.</td>
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<td>4 Classifications</td>
<td>Projected use is removed.</td>
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<td>5 General requirements</td>
<td>• 5.1 General&lt;br&gt;  5.1.2 changed “burrs in excess of 0.5 mm (1/64 in)” to “burrs in excess of 0.4 mm (1/64 in)”.&lt;br&gt;• 5.3 Corrosion resistance, added a note to clarify that corrosion resistance is typically assessed by the manufacturer using ASTM B633, ASTM B201, and ASTM B117 (test procedures).&lt;br&gt;• 5.5 Rungs and steps&lt;br&gt;  5.5.2 was modified to clarify that steps shall have a standing surface that is parallel and level (within 3°) when the ladder is in the preferred angle of inclination.&lt;br&gt;  5.5.3 was modified to exclude step ladder from this clause and referred to Clause 6.2.10. The spacing between the ends of the side rails and the top and bottom rungs or steps was changed from “shall not exceed 300 mm (12 in)” to “shall not exceed 305 mm (12 in)”&lt;br&gt;• 5.6 Hardware</td>
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<td>Clause</td>
<td>Changes</td>
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| 6 Detailed design requirements 6.1 Single and extension ladders | • 6.1.1 Single ladder length  
Clause 6.1.1.2 Changed the maximum length requirement for Grade 1AA from 5m to 9m, Grade 2 from 7.5m to 7.3m and Grade 3 from 5m to 4.9m.  
• 6.1.2 Extension ladder length  
Clause 6.1.2.2 changed the maximum length requirement for Grade 1AA three section extension ladder from 11m to 22m, Grade 1AA two section extension ladder from 9.5m to 18m, Grade 3 two section extension ladder from 9.5m to 9.7m.  
• 6.1.4 Single ladder width  
The minimum clear width between side rails was changed from “shall be not less than 300 mm” to “shall be not less than 305 mm”  
• 6.1.5 Extension ladder width  
The minimum clear width between side rails of the fly section was changed from “shall be not less than 300 mm (12 in)” to “shall be not less than 305 mm (12 in)”  
• 6.1.6 Step and rung spacing  
The spacing between adjacent ladder rungs or steps was changed from 300mm to 305mm |
| 6 Detailed design requirements 6.2 Step ladders and Tri-pod ladders | • Clause 6.2.1.2 changed the maximum ladder length requirement for Grade 1AA step ladder from 3.6m to 6m.  
• Clause 6.2.3 Step clear width and flare:  
- The minimum clear width between the side rails was changed from 300mm to 305mm.  
- Clause 6.2.3 was also modified to clarify that the minimum clear width between the side rails 305mm is required at any step location.  
• Clause 6.2.4 Step spacing between the adjacent steps, changed the spacing between adjacent steps from 300mm (12 in) to 305mm (12 in).  
• Clause 6.2 added a Clause 6.2.10 Step spacing to specify the spacing between the ends of the side rails and the top and bottom rungs or steps for step ladder and tripod ladders. |
| 6 Detailed design requirements 6.3 Trestle and extension trestle ladders | • 6.3.3 Width and flare  
➢ The minimum clear width between side rails of the trestle or extension section at any point was changed from 300mm to 305mm.  
➢ The flare requirements for a trestle ladder and an extension trestle ladder were separated. The flare requirement for a trestle ladder was changed from “shall be not less than 1.25mm/10mm” to “shall be not less than 10mm/100mm”.  
• 6.3.4 Base spread added “shall be locked in one position” to clarify that the spread of a trestle ladder shall be locked in one position.  
• 6.3.5 Step and rung spacing  
The spacing between adjacent ladder rungs or steps was changed from 300mm to 305mm (12 in). |
| 6 Detailed design requirements 6.4 Step stools | • 6.4.3 Width and flare  
➢ The minimum clear width between the side rails was changed from 300mm to 305mm.  
➢ Clause 6.4.3 was also modified to clarify that the minimum clear width between the side rails 305mm is required at any step location.  
➢ The minimum outside width at the top cap was changed from 300 mm to 305mm.  
• 6.4.4 Step spacing  
The steps and top cap spacing was changed from “200 to 300mm” to “205 to 305mm” |
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| 6.4.7 Top cap | The requirement of the size of the top cap was changed from “not less than 300 mm (12 in) wide and 130 mm (5.25 in) deep” to “not less than 305 mm (12 in) wide and 130 mm (5.25 in) deep”.
| 6 Detailed design requirements 6.5 Platform ladders and small platform ladders | • Clause 6.5.1.2 changed the maximum ladder length requirement for Grade 1AA platform ladder from 3m to 6m.  
• 6.5.3 Width and flare  
  ➢ 6.5.3.1 for regular platform ladders  
    - Clause 6.5.3.1 changed the minimum clear width between side rails at platform level from 350mm to 355mm for regular platform ladders.  
    - Clause 6.5.3.1 was also modified to clarify that minimum clear width between side rails at any step location shall be not less than 305 mm (12 in)  
  ➢ 6.5.3.2 for small platform ladders  
    Clause 6.5.3.2 was modified to clarify that minimum clear width between side rails at any step location shall be not less than 305 mm (12 in)  
• 6.5.4 Step and rung spacing changed the spacing between adjacent ladder rungs or steps from 300mm (12 in) to 305 mm (12 in) |
| 6 Detailed design requirements 6.6 Combination ladders | • 6.6.2 Slope added a requirement for a combination ladder that can be used as a trestle ladder. When a combination ladder is used as a trestle ladder, the angle of inclination of both the front and back sections shall be not more than 75°.  
| 6 Detailed design requirements 6.7 Articulated and articulated extendable ladders | Clause 6.7 added requirements for articulated and articulated extendable ladders  
| 6 Detailed design requirements 6.8 Telescoping ladders | Clause 6.8 added requirements for telescoping ladders.  
| 7 Performance requirements 7.1 Single, extension, combination, articulated, articulated extendable, and | • The title of clause 7.1 added articulated, articulated extendable, and telescoping ladders  
  • 7.1.1 Horizontal bend test  
    ➢ Table 1 Maximum allowable average deflections for horizontal bend test was changed.  
    ➢ In table 2, the deflection test load for Grade 1 ladder was changed from 115 kg to 113 kg. |
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| telescoping ladders | • 7.1.2 Deflection and twist test  
Table 3 Maximum allowable deflections and angles of twist for horizontal bend test was changed.  

• 7.1.7 Side-sway test  
- Table 4, Maximum allowable deflection for side-sway test were changed.  
  - The test section length (m), 2.5, 5.0, 6.0, 7.5 were changed to 2.4, 4.9, 6.1, 7.3.  
  - The maximum allowable deflection values for test section length over 4.9 meter were added.  

• 7.1.9 Side rail cantilever dynamic drop test  
Clause 7.1.9 added a new performance requirement.  

• 7.1.10 Foot slip limit  
Clause 7.1.9 added a new performance requirement. |
| 7 Performance requirements | • The title of Clause 7.2 added articulated, and articulated extendable ladders  

• 7.2.7 Torsional stability test  
7.2.7.2 added a distance in excess of 25mm as a pass/fail criteria of relative movement for torsional stability test.  

• 7.2.9 Side rail cantilever dynamic drop test  
Clause 7.2.9 added a new performance requirement.  

• 7.2.10 Racking test  
The title of 7.2.10 was changed from “step ladder racking test” to “racking test”.  

• 7.2.11 Foot slip limit  
Clause 7.1.11 added a new performance requirement. |
| 7 Performance requirements, 7.2 Step, trestle, extension trestle, platform, step stool, combination, articulated, and articulated extendable ladders | Clause 7.3 added additional performance requirements for articulated and articulated extendable ladders |
| 7 Performance requirements, 7.4 Additional performance requirements for telescoping ladders | Clause 7.4 added additional performance requirements for telescoping ladders |
| 8 Test procedures, 8.1 General | 8.1.2 added that ladders equipped with accessories not integral to the design of the ladder shall be tested with all such devices removed.  
Note: ANSI/ASC A14.8 may be referenced for application to ladder accessories. |
| 8 Test procedures, 8.2 Single, extension, combination, articulated, articulated extendable, and telescoping ladders | The title of 8.2 added articulated, articulated extendable, and telescoping ladders.  

8.2.1 Horizontal bending test added clause 8.2.1.8 test procedure for telescoping ladders.  

8.2.2 Deflection and twist test added clause 8.2.2.4 test procedure for telescoping ladders.  

8.2.3 Hardware load test  
- The setting up of the hardware test in Clause 8.2.3.1 was changed.  
- Clause 8.2.3.2 added a new item b to clarify the location of the force for a single ladder.  

8.2.8 Side rail cantilever bending tests |
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|        | • Table 11 added test loads for articulated ladder with stabilizer.  
|        | • The load for Grade 1 ladder was changed from 180kg to 182kg.  
|        | • The load for Grade 2 ladder was changed from 135kg to 136kg.  
|        | • The load for Grade 3 ladder was changed from 90kg to 91kg.  
|        | Clause 8.2 added a new test 8.2.9 Side-rail cantilever dynamic drop test  
|        | Clause 8.2 added a new test 8.2.10 Foot slip test  
| 8 Test procedures, 8.3 Step, trestle, extension trestle, platform, step stool, combination, articulated, and articulated extendable ladders | The title of 8.3 added articulated and articulated extendable.  
| 8.3.6 Stability test | Clause 8.3.6.1 changed “A combination ladder shall be opened to the step ladder position” to “A combination ladder shall be opened to the self-support position”.  
| | The distributed load at the second highest step or platform was changed from 90kg to 91kg in Table 5.  
| 8.3.8 Front rail and rear rail cantilever bending test | The front rail cantilever test load and rear rail cantilever test load were changed in Table 13.  
| 8 Test procedures, 8.3 Step, trestle, extension trestle, platform, step stool, combination, articulated, and articulated extendable ladders | Step ladder was removed from the title of 8.3.9 Racking test and title of Figure 14 to cover other ladders listed in Clause 8.3.  
| | Added Clause 8.3.10 Ladder slip test  
| | Added Clause 8.3.11 Front and rear rail dynamic drop test  
| 8 Test procedures, 8.4 Articulated ladder and articulated extendable ladder tests | Added Clause 8.4 Articulated ladder and articulated extendable ladder tests  
| 8 Test procedures, 8.5 Telescoping ladder tests | Added Clause 8.5 Telescoping ladder tests  
| 9 Marking | Marking requirements were changed.  

**ATTACHMENT 2**

**Background and Rationale**

Considering the magnitude of the changes to the Z11-18 and the request from the industry, in order to provide clients with sufficient time to comply with the new requirements, the effective date for compliance with the standard Z11-18 is extended from July 1, 2019 to July 1, 2020.