

AS 1891.5:2020



STANDARDS  
Australia



# Personal equipment for work at height

## Part 5: Manufacturing requirements for lanyard assemblies and pole straps



AS 1891.5:2020

This Australian Standard® was prepared by SF-015, Industrial Height Safety Equipment. It was approved on behalf of the Council of Standards Australia on 14 August 2020.

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The following are represented on Committee SF-015:

- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Lightweight Vertical Rescue Instructors
- Australian Mobile Telecommunications Association
- Australian Rope Access Association
- Better Regulation Division
- Communications, Electrical and Plumbing Union — Electrical Division
- Engineers Australia
- Facility Management Association of Australia
- IRATA Australia
- Petroleum and Gas Inspectorate
- Roofing Industry Association of NSW
- Transport for NSW
- Working at Height Association

Additional Interests

- Business New Zealand
- Electricity Engineers' Association, New Zealand
- IANZ
- Industrial Rope Access Association of New Zealand
- New Zealand Arboricultural Association
- WorkSafe New Zealand

This Standard was issued in draft form for comment as DR AS 1891.5:2020.

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# **Personal equipment for work at height**

## **Part 5: Manufacturing requirements for lanyard assemblies and pole straps**

Originated as part of AS 1891—1976.  
Previous edition part of AS/NZS 1891.1:2007.  
Revised in part and redesignated as AS 1891.5:2020.

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## Preface

This Standard was prepared by the Australian members of joint Standards Australia/Standards New Zealand SF-015, Industrial Height Safety Equipment, to supersede in part AS/NZS 1891.1:2007, *Industrial fall-arrest systems and devices, Part 1: Harnesses and ancillary equipment*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify requirements for the materials, design, manufacture, testing and labelling of lanyard assemblies and pole straps.

The major changes in this edition are as follows:

- (a) Separation of the document ( AS/NZS 1891.1:2007) into three separate documents dealing with the following areas:
  - (i) Harness manufacture ( AS/NZS 1891.1).
  - (ii) Lanyard and pole strap manufacture (this Standard).
- (b) Alteration of the testing requirements to align with International Standards and foreseeable use while balancing the need to maintain appropriate safety margins in design. These changes include:
  - (i) Elimination of unnecessary product testing through inclusion of a deemed to satisfy process.
  - (ii) Introduction of testing and labelling of lanyards for a range of user mass.
  - (iii) Increased requirements for testing of adjuster creep.
  - (iv) A requirement to test each product dynamically and then statically.
  - (v) A reduction of test loads to reflect this new testing process.
  - (vi) The introduction of minimum requirements for both connector gate loading strength and major axis strength.
  - (vii) Removal of the usage of natural fibre ropes.

This document is the fifth part of the following series of Standards dealing with this area of industrial safety:

AS 1891.5, *Personal equipment for work at height, Part 5: Manufacturing requirements for lanyard assemblies and pole straps* (this Standard)

AS/NZS 1891.1, *Personal equipment for work at height, Part 1: Manufacturing requirements for full body, combination and lower body harnesses*

AS/NZS 1891.2, *Industrial fall-arrest systems and devices, Part 2: Horizontal lifeline and rail systems*

AS/NZS 1891.2, Supp 1, *Industrial fall-arrest systems and devices, Part 2: Horizontal lifeline and rail systems, Supplement 1: Prescribed configurations for horizontal lifelines (Supplement to AS/NZS 1891.2—2001 )*

AS/NZS 1891.3, *Personal equipment for work at height, Part 3: Manufacturing requirements for fall-arrest devices*

AS/NZS 1891.4, *Industrial fall-arrest systems and devices, Part 4: Selection, use and maintenance*

The above series of Standards are part of a suite which also includes the following:

*AS/NZS 4488.1, Industrial rope access systems, Part 1: Specifications*

*AS/NZS ISO 22846.1, Personal equipment for protection against falls — Rope access systems — Part 1: Fundamental principles for a system of work*

*AS/NZS ISO 22846.2, Personal equipment for protection against falls — Rope access systems — Part 2: Code of practice*

*AS/NZS 5532, Manufacturing requirements for single-point anchor device used for harness-based work at heights*

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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