

Australian/New Zealand Standard™

Personal equipment for work at height

**Part 3: Manufacturing requirements for
fall-arrest devices**



AS/NZS 1891.3:2020

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee SF-015, Industrial Height Safety Equipment. It was approved on behalf of the Council of Standards Australia on 20 February 2020 and by the New Zealand Standards Approval Board on 5 February 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
- BSI Group Australian and New Zealand (Certification Bodies)
- Business New Zealand
- Communications, Electrical and Plumbing Union — Electrical Division
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- IRATA Australia
- New Zealand Arboricultural Association
- Roads and Maritime Services
- Roofing Industry Association of NSW
- SafeWork NSW
- Scaffolding, Access and Rigging New Zealand
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This Standard was issued in draft form for comment as DR AS/NZS 1891.3:2018.

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Part 3: Manufacturing requirements for fall-arrest devices

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Preface

This Standard was prepared by the joint Standards Australia/Standards New Zealand Committee SF-015, Industrial Height Safety Equipment, to supersede AS/NZS 1891.3:1997, *Industrial fall-arrest systems and devices, Part 3: Fall-arrest devices*.

The objective of this Standard is to provide a mechanism to claim conformance to an Australian Standard for fall-arrest devices conforming to specified International Standards.

Changes to this edition include removal of —

- (a) design requirements; and
- (b) Appendices A, B, C and D.

This Standard is the third part of the AS(/NZS) 1891 series of Standards:

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* (this Standard)

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

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

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Part 3: Manufacturing requirements for fall-arrest devices

1 Scope

This Standard specifies the requirements for the design and testing of fall-arrest devices which travel along a fixed or flexible anchorage line, and those which unreel an anchorage line.

2 Normative references

The following documents are referred to in the text in such a way that all of their content constitutes requirements of this document.

AS/NZS 1891, *Industrial fall-arrest systems and devices (all parts)*

AS(/NZS) 1891, *Personal equipment for work at height (all parts)*

ANSI/ASSP Z359.4, *Safety Requirements For Assisted Rescue and Self-Rescue Systems, Subsystems And Components*

ANSI/ASSP Z359.14, *Safety Requirements For Self-Retracting Devices For Personal Fall Arrest and Rescue Systems*

ANSI/ASSP Z359.15, *Safety Requirements For Single Anchor Lifelines And Fall Arresters For Personal Fall Arrest And Rescue Systems*

ANSI/ASSP Z359.16, *Safety Requirements For Climbing Ladder Fall Arrest Systems*

EN 353, *Personal fall protection equipment (series)*

EN 360, *Personal protective equipment against falls from a height — Retractable type fall arresters*

EN 1496, *Personal fall protection equipment — Rescue lifting devices*

EN 12841, *Personal fall protection equipment — Rope access systems — Rope adjustment devices*

3 Terms and definitions

No terms and definitions are listed in this document.

4 Conforming fall-arrest devices

The fall-arrest device shall conform to at least one of the standards listed under primary function in [Table 1](#) and, where applicable, at least one of the standards listed under secondary function. In addition, textile line components of fall arrest devices shall meet the light degradation performance requirements of AS/NZS 1891.1.

Table 1 — Acceptance of systems conforming to international standards

Description	Type 1	Type 2	Type 3	Type 4
	Guided fall arrest system and rope adjustment devices	Self-retracting lifelines	Self-retracting lifelines with retrieval	Self-retracting lifelines with self-rescue
Primary function	EN 353.1	EN 360	EN 360	EN 360
	EN 353.2	ANSI/ASSP Z359.14	ANSI/ASSP Z359.14	ANSI/ASSP Z359.14
	EN 12841 ^a			
	ANSI/ASSP Z359.15			
	ANSI/ASSP Z359.16			
Secondary function	N/A	N/A	EN 1496	EN 341 ^b
			ANSI/ASSP Z359.14 ^c	ANSI/ASSP Z359.4 ^e
			ANSI/ASSP Z359.4 ^d	
<div><div>^a EN 12841 — Type 1 devices shall be Type A only</div><div>^b EN 341 — Type 4 devices shall be Type 1 only</div><div>^c ANSI/ASSP Z359.14 — Type 3 devices shall be SRL-R (self-retracting lifeline retrieval) only</div><div>^d ANSI/ASSP Z359.4 — Type 3 devices shall be personnel hoist only</div><div>^e ANSI/ASSP Z359.4 — Type 4 devices shall be descent devices only</div><div>NOTE 1 See AS/NZS 1891.4 for designations of Type 1, Type 2 and Type 3 devices.</div><div>NOTE 2 A Type 4 device is a Type 2 with a self-rescue feature.</div><div>NOTE 3 References to ANSI/ASSP and EN standards are undated to indicate that the current edition, including any amendments, is required.</div></div>				

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Standards New Zealand

The first national Standards organization was created in New Zealand in 1932. The New Zealand Standards Executive is established under the Standards and Accreditation Act 2015 and is the national body responsible for the production of Standards.

Australian/New Zealand Standards

Under a Memorandum of Understanding between Standards Australia and Standards New Zealand, Australian/New Zealand Standards are prepared by committees of experts from industry, governments, consumers and other sectors. The requirements or recommendations contained in published Standards are a consensus of the views of representative interests and also take account of comments received from other sources. They reflect the latest scientific and industry experience. Australian/New Zealand Standards are kept under continuous review after publication and are updated regularly to take account of changing technology.

International Involvement

Standards Australia and Standards New Zealand are responsible for ensuring that the Australian and New Zealand viewpoints are considered in the formulation of international Standards and that the latest international experience is incorporated in national and Joint Standards. This role is vital in assisting local industry to compete in international markets. Both organizations are the national members of ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission).

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