Australian/New Zealand Standard®

Industrial fall-arrest systems and devices

Part 3: Fall-arrest devices

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF/15, Industrial Safety Belts and Harnesses. It was approved on behalf of the Council of Standards Australia on 14 March 1997 and on behalf of the Council of Standards New Zealand on 24 March 1997. It was published on 5 July 1997.

The following interests are represented on Committee SF/15:

Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Lightweight Vertical Rescue Instructors
Bureau of Steel Manufacturers of Australia
Communications, Electrical, Plumbing Union
Department of Employment, Vocational Education, Training and Industrial Relations, Queensland
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF/15 on Industrial Safety Belts and Harnesses. It is one of a group of Standards dealing with fall protection equipment for industrial use and supersedes AS 1891.3—1992 *Industrial safety belts and harnesses*, Part 3: *Fall-arrest devices*. The other Standard in the group which has already been published is as follows:

AS/NZS	
1891	Industrial fall-arrest systems and devices
1891.1	Part 1: Safety belts and harnesses

The following documents were referred to during the compilation of this Standard:

EN	
353	Personal protective equipment against falls from a height
353-1:1992	Guided type fall arresters on a rigid anchorage line
353-2:1992	Guided type fall arresters on a flexible anchorage line
360:1992	Personal protective equipment against falls from a height—Retractable type fall arresters

The principal variations from AS 1891.3—1992 are as follows:

(a) The maximum force in a supporting lanyard (Type 1 devices) or anchorage line (Types 2 and 3 devices) during fall-arrest is limited to 6 kN, with requirements for an integral energy absorber to be attached to the fall-arrest device where adequate energy absorption is not inherent in the device itself.

(b) Requirements for attachment hardware now follow those specified in AS/NZS 1891.1.

(c) The strength requirement for anchorage lines and attachment hardware is now consistently specified as 15 kN.

(d) Test methods have been revised to eliminate the need to use a test dummy for dynamic tests.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for the design and performance of fall-arrest devices comprising devices which travel along either a fixed or flexible anchorage line, and those which pay out an anchorage line.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
1192	Electroplated coatings—Nickel and chromium
1231	Aluminium and aluminium alloys—Anodized coatings for architectural applications
1650	Hot-dipped galvanized coatings on ferrous articles
1789	Electroplated coatings—Zinc on iron or steel
1790	Electroplated coatings—Cadmium on iron or steel
1897	Electroplated coatings on threaded components (metric coarse series)
2193	Method of calibration and grading of force-measuring systems of testing machines
3569	Steel wire ropes
4142	Fibre rope
4142.1	Part 1: Care and safe usage
4142.2	Part 2: Three strand hawser laid and eight strand plaited
4142.3	Part 3: Man-made fibre rope for static life rescue lines
4626	Industrial fall-arrest devices—Selection, use and maintenance
K132	Electroplated coatings on threaded components
K132.1	Part 1: Cadmium on steel
K132.2	Part 2: Zinc on steel
AS/NZS	
1891	Industrial fall-arrest systems and devices
1891.1	Part 1: Safety belts and harnesses
BS	
4921	Specification for sherardized coatings on iron or steel
SAE	
J211	Instrumentation for impact tests
J211/1 Mar 95	Part 1: Electronic instrumentation

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