

Australian/New Zealand Standard™

Furniture — School and educational

**Part 2: Chairs — Strength, durability
and stability**



AS/NZS 4610.2:2020

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- Australian Chamber of Commerce and Industry
- Furniture and Cabinetmaking Association of New Zealand
- Furntech — Australasian Furnishing Research & Development Institute
- Human Factors and Ergonomics Society of New Zealand
- National Retail Association
- Plastics New Zealand

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-088, Furniture — Domestic and Commercial, to supersede AS/NZS 4610.2:1999, *Furniture — School and educational, Part 2: Chairs — Strength, durability and stability*.

The objective of this Standard is to provide educational authorities, purchasers, specifiers, users, manufacturers and consumers with requirements for school and educational chairs that specify sizing, safety, strength, durability and stability requirements to assist in selection and evaluation.

This Standard is Part 2 of the AS/NZS 4610 series consisting of the following:

AS/NZS 4610.1, *Furniture — School and educational, Part 1: Tables — Strength, durability and stability*

AS/NZS 4610.2, *Furniture — School and educational, Part 2: Chairs — Strength, durability and stability* (this Standard)

AS/NZS 4610.3, *Furniture — School and educational, Part 3: Storage furniture — Strength, durability and stability*

The major changes in this revision are as follows:

- (a) Test level and dimensional size marks have increased from seven categories to eight and have changed from numerical to alphabetical designation.
- (b) A safety section has been added, see [Section 4](#).
- (c) Tests for durability of castors (see [Appendix V](#)) and writing tablets (see [Appendices T](#) and [U](#)) have been included.
- (d) Tests for leg strength and impact tests have been revised, see [Appendices K](#), [M](#), and [N](#).
- (e) Tests for pedestal style chairs only have been included, see [Appendix I](#).

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

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Furniture — School and educational

Part 2: Chairs — Strength, durability and stability

Section 1 Scope and general

1.1 Scope

This Standard specifies sizing, safety, strength, durability and stability requirements for eight sizes of chairs for educational institutions.

Chairs may be —

- (a) fixed height;
- (b) height adjustable;
- (c) with arms;
- (d) without arms;
- (e) have fixed seats; or
- (f) swivel seats.

Chairs may have —

- (i) fixed or inclinable backrests of not more than 30° from vertical;
- (ii) fixed or inclinable single slope seats;
- (iii) a writing tablet; or
- (iv) a storage area, usually under the seat.

Where a chair includes a storage component, this Standard will not make any strength or durability assessment of that component.

Bases may be, but are not limited to —

- (A) discrete legs;
- (B) sled;
- (C) cantilever; or
- (D) pedestal types.

Bases may be fitted with —

- (1) wheels;
- (2) castors;
- (3) glides; or
- (4) ferrules.

NOTE 1 In this Standard, the term “chair” also includes stools.