

Australian/New Zealand Standard™

Furniture — School and educational

**Part 3: Storage furniture — Strength,
durability and stability**



AS/NZS 4610.3:2020

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- Australasian Furnishing Association
- 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 4610.3:1999, *Furniture — School and educational, Part 3: Tables and storage furniture — 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 storage furniture that specifies strength, durability and stability requirements to assist in selection and evaluation.

This Standard is Part 3 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*

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

The major changes in this edition are as follows:

- (a) Tests for hanging rails, locks, totes, dynamic stability and castors have been added.
- (b) A formaldehyde emissions requirement has been added for materials used in construction.
- (c) The use of size marks to determine test levels for storage furniture has been considered inappropriate and have been replaced with test levels of either “Normal” or “Severe”.

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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Part 3: Storage furniture — Strength, durability and stability

Section 1 Scope and general

1.1 Scope

This Standard specifies strength, durability and stability requirements for free standing storage furniture for use in educational institutions.

Storage furniture includes items such as, cupboards, bookcases, shelving units, bag and tote storage units and lockers, magazine racks, teaching units, and trolleys. Storage furniture may be static or mobile.

Storage furniture may be fully assembled or require full or partial assembly.

The following are not covered by this Standard:

- (a) Wall mounted units, specialized library shelving units, filing cabinets, lecterns and similar items.
- (b) Electrical conformance, power and cable management.
- (c) Components made of glass.

NOTE Testing of glass is not covered in this Standard.

1.2 Normative references

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

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

ISO 48-4, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4: Indentation hardness by durometer method (Shore hardness)*

ISO 48-5, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 5: Indentation hardness by IRHD pocket meter method*

1.3 Terms and definitions

For the purpose of this Standard the following definitions apply.

1.3.1

accuracy

degree of closeness to the true value or the specified value of whatever dimension is being measured, or force applied

1.3.2

clear space

internal height of a drawer defined by the height of a box that just allows the drawer to be closed