

Australian/New Zealand Standard™

**Furniture—Storage units—  
Determination of strength and durability**



## **AS/NZS 4790:2006**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-088, Commercial Furniture. It was approved on behalf of the Council of Standards Australia on 8 September 2006 and on behalf of the Council of Standards New Zealand on 22 September 2006.  
This Standard was published on 18 October 2006.

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Ergonomics Society of Australia  
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*This Standard was issued in draft form for comment as DR 06421.*

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Determination of strength and durability**

First published as AS/NZS 4790:2006.

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7774 0

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-088, Commercial Furniture and CS-091, Domestic Furniture.

This Standard is identical with, and has been reproduced from ISO 7170:2005, *Furniture—Storage units—Determination of strength and durability*.

The objective of this Standard is to specify test methods for determining the strength and durability of storage units that are fully assembled.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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## CONTENTS

	<i>Page</i>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 General test conditions</b> .....	<b>3</b>
4.1 Preliminary preparation .....	3
4.2 Test equipment .....	4
4.3 Application of forces .....	4
4.4 Tolerances .....	4
4.5 Sequence of testing .....	4
4.6 Prevention of movement during test .....	4
4.7 Load on parts not subject to testing .....	5
4.8 Inspection and assessment of results .....	5
<b>5 Test apparatus</b> .....	<b>5</b>
<b>6 Test procedures for non-movable parts</b> .....	<b>6</b>
6.1 Shelves .....	6
6.1.1 General .....	6
6.1.2 Shelf retention test .....	6
6.1.3 Deflection of shelves .....	6
6.1.4 Strength of shelf supports .....	6
6.2 Tops and bottoms .....	8
6.2.1 Sustained load test for tops and bottoms .....	8
6.2.2 Static load test for tops and bottoms .....	8
6.3 Strength of clothes rails and their supports .....	8
6.3.1 Strength of clothes-rail supports .....	8
6.3.2 Dislodgement of clothes rails .....	9
6.4 Strength of the structure .....	9
6.4.1 Test for structure and underframe .....	9
6.4.2 Drop test .....	11
6.4.3 Tests for units with castors or wheels .....	11
<b>7 Test procedures for movable parts</b> .....	<b>11</b>
7.1 Pivoted doors .....	11
7.1.1 General .....	11
7.1.2 Strength of pivoted doors .....	12
7.1.3 Slam-shut test of pivoted doors .....	13
7.1.4 Durability of pivoted doors .....	14
7.2 Sliding doors and horizontal roll-fronts .....	15
7.2.1 General .....	15
7.2.2 Slam shut/open test of sliding doors and horizontal roll-fronts .....	15
7.2.3 Durability of sliding doors and horizontal roll-fronts .....	15

	<i>Page</i>
<b>7.3 Flaps</b> .....	<b>17</b>
7.3.1 Strength of bottom-hinged flaps .....	17
7.3.2 Durability of flaps .....	17
7.3.3 Drop test for top-hinged flaps .....	17
<b>7.4 Vertical roll-fronts</b> .....	<b>18</b>
7.4.1 Slam shut/open of vertical roll-fronts .....	18
7.4.2 Durability of vertical roll-fronts .....	19
<b>7.5 Extension elements</b> .....	<b>19</b>
7.5.1 General .....	19
7.5.2 Strength of extension elements .....	19
7.5.3 Durability of extension elements .....	20
7.5.4 Slam shut/open test of extension elements .....	21
7.5.5 Displacement of extension element bottoms .....	21
7.5.6 Interlock test .....	22
<b>7.6 Locking and latching mechanism tests</b> .....	<b>22</b>
7.6.1 General .....	22
7.6.2 Strength test for locking and latching mechanisms for extension elements .....	22
7.6.3 Locking and latching mechanisms for doors, flaps and roll-fronts .....	23
7.6.4 Durability test of locking and latching mechanisms .....	23
<b>8 Units mounted to the building or other structure</b> .....	<b>23</b>
8.1 Units not supported by the floor .....	23
8.1.1 General .....	23
8.1.2 Movable parts, shelf supports, tops and bottoms .....	23
8.1.3 Sustained load test (overload) .....	24
8.1.4 Dislodgement test .....	24
8.2 Units supported by the floor .....	24
<b>9 Test report</b> .....	<b>24</b>
<b>Annex A (informative) Guidance for the choice of loads, cycles, etc. for storage furniture strength and durability tests</b> .....	<b>26</b>
<b>Annex B (normative) Test apparatus for slam-shut/open test of extension elements</b> .....	<b>29</b>

## AUSTRALIAN/NEW ZEALAND STANDARD

# Furniture — Storage units — Determination of strength and durability

## 1 Scope

This International Standard specifies test methods for determining the strength and durability of storage units that are fully assembled and ready for use, including their movable and non-movable parts.

The tests consist of the application, to various parts of the unit, of loads, forces and velocities simulating normal functional use, as well as misuse, that might reasonably be expected to occur.

With the exception of the sustained load tests in Clause 6, the tests are designed to evaluate properties without regard to materials, design/construction or manufacturing processes.

The test results are only valid for the unit/component tested. These results may be used to represent the performance of production models provided that the tested model is representative of the production model.

Tests carried out according to this International Standard are intended to demonstrate the ability of the item to give satisfactory service in its intended environment. The tests have been developed for units/components that have not been in use. However, when properly justified, they may be used for fault investigation.

The strength and durability tests do not assess the structure of the building, e.g. the strength of wall hanging cabinets includes only the cabinet and the parts used in the attachment. The wall and the attachment into the wall are not included.

Assessment of ageing and degradation is not included.

This International Standard specifies test methods only. It does not specify requirements. These should be specified in a requirements document. If this is not available, suggested loads and cycles can be found in Annex A.

Annex B describes two apparatuses used for slam-shut and slam-open tests of extension elements.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7219-2:2004, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 2: IRHD pocket meter method*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### catch device

device, which keeps or pulls a component in place

NOTE It does not require a second action in order to release it, e.g. a magnetic catch or a self-closing-mechanism.