



## **Freight containers**

### **Part 1: Classification, dimensions and ratings (ISO 668:2013, MOD)**



This Australian Standard® was prepared by Committee ME-068, Freight Containers. It was approved on behalf of the Council of Standards Australia on 11 June 2015. This Standard was published on 30 June 2015.

---

The following are represented on Committee ME-068:

- Australasian Railway Association (RISSB)
  - Australian Industry Group
  - Australian Logistics Council
  - Australian Maritime Safety Authority
  - Container Owners Association
  - ICHCA Australia
  - Ports of Auckland
  - Royalwolf Trading New Zealand
  - Shipping Australia
- 

This Standard was issued in draft form for comment as DR AS 3711.1:2014.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

---

#### **Keeping Standards up-to-date**

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting [www.standards.org.au](http://www.standards.org.au)

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

Australian Standard<sup>®</sup>

## Freight containers

### Part 1: Classification, dimensions and ratings (ISO 668:2013, MOD)

Originated as AS/NZS 3711.1:1993.  
Previous edition AS 3711.1—2000.  
Third edition AS 3711.1:2015.

#### **COPYRIGHT**

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 136 6

## PREFACE

This Standard was prepared by the Standards Australia Committee ME-068, Freight Containers, to supersede AS 3711.1—2000, *Freight containers, Part 1: Classification, dimensions and ratings*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to establish a classification of series 1 freight containers based on external dimensions, and to specify the associated ratings and, where appropriate, the minimum internal and door opening dimensions for certain types of containers.

The objective of this revision is to adopt the latest edition of the corresponding International Standard.

This Standard is an adoption with national modifications and has been reproduced from ISO 668:2013, *Series 1 freight containers—Classification, dimensions and ratings*. Appendix ZZ lists the variations to ISO 668:2013 for the application of this Standard in Australia.

This Standard is Part 1 of the AS(/NZS) 3711 series. The series comprises the following:

## AS

3711	Freight containers
3711.1	Part 1: Classification, dimensions and ratings (ISO 668:2013, MOD) (this Standard)
3711.2	Part 2: Terminology (ISO 830:1999, MOD)
3711.3	Part 3: Corner fittings (ISO 1161:1984, MOD)
3711.4	Part 4: General purpose containers (ISO 1496-1:2013, MOD)
3711.5	Part 5: Thermal containers (ISO 1496-2:2008, MOD)
3711.6	Part 6: Tank containers
3711.8	Part 8: Platform containers
3711.9	Part 9: Coding, identification and marking
3711.10	Part 10: Handling and securing

## AS/NZS

3711	Freight containers
3711.7	Part 7: Dry bulk containers

As this Standard is reproduced from an International Standard, the following applies:

- In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
1161	Series 1 freight containers—Corner fittings—Specification	3711	Freight containers
1496	Series 1 freight containers—Specification and testing	3711.3	Part 3: Corner fittings (ISO 1161:1984, MOD)
1496-1	Part 1: General cargo containers for general purposes	3711.4	Part 4: General purpose containers (ISO 1496-1:2013, MOD)
1496-2	Part 2: Thermal containers	3711.5	Part 5: Thermal containers (ISO 1496-2:2008, MOD)

6346 Freight containers—Coding,  
identification and marking

3711.9 Part 9: Coding, identification and  
marking

Only normative references that have been adopted as Australian Standards have been listed.

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

## CONTENTS

<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>1</b>
<b>4</b>	<b>Classification and designation</b> .....	<b>2</b>
<b>5</b>	<b>Dimensions, tolerances and ratings</b> .....	<b>3</b>
5.1	Reference temperature for measurements.....	3
5.2	External dimensions, tolerances and ratings.....	3
5.3	Internal dimensions and door openings.....	4
5.4	Corner fitting locations.....	5
<b>Annex A</b>	<b>(normative) Corner fittings</b> .....	<b>7</b>
<b>Annex B</b>	<b>(normative) Details of requirements for load transfer areas in base structures of containers</b> .....	<b>9</b>
<b>Annex C</b>	<b>(normative) Dimensions of gooseneck tunnels</b> .....	<b>16</b>

## AUSTRALIAN STANDARD

**Freight containers****Part 1:  
Classification, dimensions and ratings (ISO 668:2013, MOD)****1 Scope**

This International Standard establishes a classification of series 1 freight containers based on external dimensions, and specifies the associated ratings and, where appropriate, the minimum internal and door opening dimensions for certain types of containers.

These containers are intended for intercontinental traffic.

This International Standard summarizes the external and some of the internal dimensions of series 1 containers. The dimensions of each type of container are defined in the appropriate part of ISO 1496, which is the authoritative document for internal container dimensions.

**2 Normative references**

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

ISO 830:1981, *Freight containers — Terminology*

ISO 1161, *Series 1 freight containers — Corner fittings — Specification*

ISO 1496-1, *Series 1 freight containers — Specification and testing — Part 1: General cargo containers for general purposes*

ISO 1496-2, *Series 1 freight containers — Specification and testing — Part 2: Thermal containers*

ISO 6346, *Freight containers — Coding, identification and marking*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in ISO 830:1981 and the following apply.

**3.1****freight container**

article of transport equipment

- a) of a permanent character and accordingly strong enough to be suitable for repeated use;
- b) specially designed to facilitate the carriage of goods by one or more modes of transport, without intermediate reloading;
- c) fitted with devices permitting its ready handling, particularly its transfer from one mode of transport to another;
- d) so designed as to be easy to fill and empty;
- e) having an internal volume of 1 m<sup>3</sup> (35,3ft<sup>3</sup>) or more

Note 1 to entry: The term “freight container” does not include vehicles or conventional packing.