AS 3711.3:2015

Australian STANDARD

# Freight containers

# Part 3: Corner fittings (ISO 1161:1984, MOD)

STANDARDS Australia

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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

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This Standard was issued in draft form for comment as DR AS/NZS 3711.3:2015.

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.

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Australian Standard®

# Freight containers

# Part 3: Corner fittings (ISO 1161:1984, MOD)

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# PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-068, Freight Containers, to supersede AS/NZS 3711.3:1993, *Freight containers*, Part 3: *Corner fittings*. 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 the basic dimensions and the functional and strength requirements of corner fittings for freight containers.

This Standard is an adoption with national modifications and has been reproduced from ISO 1161:1984, *Series 1 freight containers—Corner fittings—Specification*, its Technical Corrigendum 1 (1990) and its Amendment 1 (2007), which have been added at the end of the source text. Appendix ZZ lists the variations to ISO 1161:1984 for the application of this Standard in Australia.

This Standard is Part 3 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) |
| 3711.2 | Part 2: Terminology (ISO 830:1999, MOD) |
| 3711.3 | Part 3: Corner fittings (ISO 1161:1984, MOD) (this Standard) |
| 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

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|---|---|
| 3711 | Freight containers |
| 3711.7 | Part 7: Dry bulk containers |

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

(a) In the source text ‘this International Standard’ should read ‘this Australian Standard’.

(b) 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:

| *Reference to International Standard* | | *Australian Standard* | |
|---|---|---|---|
| ISO | | AS | |
| | | 3711 | Freight containers |
| 668 | Series 1 freight containers—Classification, external dimensions and ratings | 3711.1 | Part 1: Classification, dimensions and ratings (ISO 668:2013, MOD) |
| 1496 | Series 1 freight containers—Specification and testing | | |
| 1496-1 | Part 1: General cargo containers for general purposes | 3711.4 | Part 4: General purpose containers (ISO 1496-1:2013, MOD) |

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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AUSTRALIAN STANDARD

# Freight containers

## Part 3:
## Corner fittings (ISO 1161:1984, MOD)

## 0 Introduction

This International Standard on corner fittings is the result of the efforts of technical and operational personnel drawn from all phases of the transportation industry. The figures show the fittings for the top and bottom corners of series 1 freight containers which will provide compatibility in interchange between transportation modes. Care has been taken to limit consideration only to those details vital to this function.

The size and configuration of corner fitting apertures are specified. The faces of the corner fittings having apertures for the engagement of handling and securing devices have specified thickness and tolerances as shown in figures 1, 2, 3 and 4. The thickness of the blank walls is not specified since they are not involved in the engagement of the handling and securing devices, provided that their inner surfaces do not protrude into the corner fitting cavity reserved for the engaging devices; however, typical overall dimensions of box-shaped top and bottom corner fittings are given in annex A by way of example. These overall dimensions are not mandatory.

The purpose of this International Standard is to define some details of design vital to container interchange in automatic, semi-automatic and conventional systems.

The strength and testing requirements specified in this International Standard do not take any account of the stresses which may result from the practice of end-to-end coupling of containers.

Typical examples of twistlock lifting devices which may be fitted on handling devices are given in annex B.

A guide on the choice of sizes of twistlock tie-down devices and their positioning for securing series 1 freight containers to carrying vehicles is given in annex C.

NOTE — The requirements of this International Standard do not preclude the provision of additional facilities for lifting either from the top or at the base of the freight container.

## 1 Scope and field of application

This International Standard establishes the basic dimensions and the functional and strength requirements of corner fittings for series 1 freight containers, i.e. containers which conform to ISO 668 and ISO 1496 with the exception of air mode containers (see ISO 8323).

## 2 References

ISO 668, *Series 1 freight containers — Classification, external dimensions and ratings.*

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

ISO 8323, *Freight containers — Air/surface (intermodal) general purpose containers — Specification and tests.*[1)]

1) At present at the stage of draft.