

- [Home Home](#)
- [About this portal](#)
- [Latest updates](#)

[Resource detail](#)
[Citations](#)

AS/NZS 1664.2:1997 Aluminium structures - Allowable stress design

[View on Information Provider website](#)

Abbreviation

AS/NZS 1664.2:1997

Amendment

Amendment 1 - incorporated, Published 04/01/1999.

Valid from

04/09/1997

Information provider

Standards New Zealand

Author

Standards New Zealand, Standards Australia

Information type

New Zealand Standard

Format

PDF

Cited By

[This resource is cited by 2 documents \(show Citations\)](#)

Description

This Standard specifies requirements for the design of aluminium alloy load carrying members and elements.

The allowable stress design (ASD) criteria are intended as an alternative to the limit state design (LSD) criteria (see AS 1664.1).

One design specification (ASD or LSD) applies throughout the design of a single structure.

For assistance with locating previous versions, please contact the information provider.

[View on Information Provider website](#)

For assistance with locating previous versions, please contact the information provider.

This resource is cited by:

AS/NZS 1664.2:1997 Aluminium structures - Allowable stress design

This document is CITED BY:

- [AS 1657:2013](#)

AS/NZS 1664.2:1997 is cited by AS 1657:2013 Fixed platforms, walkways, stairways and ladders - Design, construction and installation

- [AS/NZS 1664.1:1997](#)

AS/NZS 1664.2:1997 is cited by AS/NZS 1664.1:1997 Aluminium structures - Limit state design

Back

AS/NZS 1664.2:1997 Aluminium structures - Allowable stress design

Show what documents this resource is CITED BY

Show what documents this resource CITES

Description

This Standard specifies requirements for the design of aluminium alloy load carrying members and elements.

The allowable stress design (ASD) criteria are intended as an alternative to the limit state design (LSD) criteria (see AS 1664.1).

One design specification (ASD or LSD) applies throughout the design of a single structure.

[View on Information Provider website](#)

[AS/NZS 1664.2:1997 Aluminium structures - Allowable stress design](#)

Description

This Standard specifies requirements for the design of aluminium alloy load carrying members and elements.

The allowable stress design (ASD) criteria are intended as an alternative to the limit state design (LSD) criteria (see AS 1664.1).

One design specification (ASD or LSD) applies throughout the design of a single structure.

[View on Information Provider website](#)

This resource does not cite any other resources.

AS/NZS 1664.2:1997 Aluminium structures - Allowable stress design

This resource does not CITE any other resources.

Back

Close

Table of Contents

Section 1 General

1.1 Scope

1.2 Materials

1.3 Safety Factors

1.4 Referenced Documents

Section 2 Design Procedure

2.1 Properties Of Sections

2.2 Procedure

2.3 Loading

Section 3 General Design Rules

3.1 Introduction

3.2 Nomenclature

3.3 Tables Relating To Mechanical Properties And Buckling Constants

3.4 Allowable Stresses

Section 4 Special Design Rules

4.1 Combined Axial Load And Bending

4.2 Torsion And Shear In Tubes

4.3 Torsion And Bending In Open Shapes

4.4 Combined Shear, Compression And Bending

4.5 Horizontal Stiffeners For Webs

4.6 Vertical Stiffeners For Shear Webs

4.7 Effects Of Local Buckling On Member Performance

4.8 Fatigue

4.9 Compression In Single Web Beams And Beams Having Sections Containing Tubular Portions

4.10 Compression In Elastically Supported Flanges

Section 5 Mechanical Connections

5.1 Bolted And Riveted Connections

5.2 Metal Stitching Staples

5.3 Self Tapping Screw Connections

Section 6 Fabrication

6.1 Laying Out

6.2 Cutting

6.3 Heating

6.4 Punching, Drilling And Reaming

6.5 Riveting

6.6 Painting

6.7 Cleaning And Treatment Of Metal Surfaces

Section 7 Welded Construction

7.1 Allowable Stresses For Welded Members

7.2 Filler Wire

7.3 Members With Longitudinal Welds

7.4 Members With Transverse Welds

7.5 Welding Fabrication

Section 8 Testing

8.1 Scope And General

8.2 Test Requirements

8.3 Tests For Determining Material Properties

8.4 Procedure

8.5 Reporting Of Test Results

[Save](#)

[Feedback](#)

- [Contact us](#)
- [Privacy policy](#)
- [Disclaimer](#)
- [Copyright](#)

[Feedback](#)