

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

  

[Save](#)

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

## AS/NZS 4672.1:2007 Steel prestressing materials - Part 1: General requirements

[View on Information Provider website](#)

### Abbreviation

AS/NZS 4672.1:2007

### Valid from

17/01/2007

### Replaces

[AS 1313-1989](#), [AS 1311-1987](#)

---

### 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 \(show Citations\)](#)

### Cites

[This resource cites 1 document \(show Citations\)](#)

---

### Description

This Standard provides a single specification for material requirements for as-drawn wire, stress-relieved wire, quenched and tempered wire, strand, and hot-rolled steel bars, intended for use in prestressed concrete structures which have been designed in accordance with AS 3600, Concrete structures or NZS 3101.1, Concrete structures Standard, Part 1: The design of concrete structures.

### Scope

This Standard specifies requirements for high tensile strength steel tendons to be used for prestressing concrete and for other similar purposes (e.g., masonry structures). It applies only to tendons in the condition as supplied by the manufacturer. It does not cover requirements for anchorage devices (see Note 1) and materials used in conjunction with the prestressing steel in structural components.

The specific properties for each type of prestressing steel are given in Sections 2 to 6, namely:

- (a) Section 2, As-drawn (mill coil) wire.
- (b) Section 3, Stress-relieved wire.

- (c) Section 4, Quenched and tempered wire.
- (d) Section 5, Strand.
- (e) Section 6, Hot-rolled bars with or without subsequent processing.

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

#### Notes/comments

Note: Standard NZS 3101:Part 1:2006 refers to AS/NZS 4672 Steel prestressing materials (in preparation), AS/NZS 4672.1:2007 and AS/NZS4672.2:2007 are the closest published Standards to this reference.

[Table of Contents](#) [View on Information Provider website](#) `{{ linkText }}`

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

Note: Standard NZS 3101:Part 1:2006 refers to AS/NZS 4672 Steel prestressing materials (in preparation), AS/NZS 4672.1:2007 and AS/NZS4672.2:2007 are the closest published Standards to this reference.

This resource is cited by:

## AS/NZS 4672.1:2007 Steel prestressing materials - Part 1: General requirements

This document is CITED BY:

- [AS/NZS 4672.2:2007](#)

AS/NZS 4672.1:2007 is cited by AS/NZS 4672.2:2007 Steel prestressing materials - Part 2: Testing requirements

- [NZS 3101.1&2:2006](#)

AS/NZS 4672.1:2007 is cited by NZS 3101.1&2:2006 Concrete structures standard. The design of concrete structures

[Back](#)

## AS/NZS 4672.1:2007 Steel prestressing materials - Part 1: General requirements

[Show what documents this resource is CITED BY](#)

[Show what documents this resource CITES](#)

#### Description

This Standard provides a single specification for material requirements for as-drawn wire, stress-relieved wire, quenched and tempered wire, strand, and hot-rolled steel bars, intended for use in prestressed concrete structures which have been designed in accordance with AS 3600, Concrete structures or NZS 3101.1, Concrete structures Standard, Part 1: The design of concrete structures.

[View on Information Provider website](#)

[AS/NZS 4672.1:2007 Steel prestressing materials - Part 1: General requirements](#)

#### Description

This Standard provides a single specification for material requirements for as-drawn wire, stress-relieved wire, quenched and tempered wire, strand, and hot-rolled steel bars, intended for use in prestressed concrete structures which have been designed in accordance with AS 3600, Concrete structures or NZS 3101.1, Concrete structures Standard, Part 1: The design of concrete structures.

[View on Information Provider website](#)

This resource cites:

# AS/NZS 4672.1:2007 Steel prestressing materials - Part 1: General requirements

This document CITES:

New Zealand Standards

- [AS/NZS 4672.2:2007](#)

AS/NZS 4672.1:2007 cites AS/NZS 4672.2:2007 Steel prestressing materials - Part 2: Testing requirements

Back

Close

Table of Contents

## Section 1 Scope and General

### 1.1 Scope

### 1.2 Referenced Documents

### 1.3 Definitions

### 1.4 Manufacturing Process

### 1.5 Requirements

### 1.6 Testing

### 1.7 Rounding Of Numbers

### 1.8 Delivery Details

## Section 2 As-Drawn (Mill Coil) Wire

### 2.1 Scope of Section

### 2.2 Conditions of Manufacture

### 2.3 Surface Configuration

### 2.4 Properties and Requirements

### 2.5 Designation

### 2.6 Delivery Details

## Section 3 Stress-Relieved Wire

### 3.1 Scope of Section

### 3.2 Conditions of Manufacture

### **3.3 Surface Configuration**

### **3.4 Properties and Requirements**

### **3.5 Designation**

### **3.6 Delivery Details**

## **Section 4 Quenched and Tempered Wire**

### **4.1 Scope of Section**

### **4.2 Conditions of Manufacture**

### **4.3 Surface Configuration**

### **4.4 Properties and Requirements**

### **4.5 Designation**

### **4.6 Delivery Details**

## **Section 5 Strand**

### **5.1 Scope of Section**

### **5.2 Conditions of Manufacture**

### **5.3 Strand Construction**

### **5.4 Properties and Requirements**

### **5.5 Tensile Testing Of Strand**

### **5.6 Designation**

### **5.7 Delivery Details**

## **Section 6 Hot-Rolled Steel Bars With or Without Subsequent Processing**

### **6.1 Scope of Section**

### **6.2 Conditions of Manufacture**

### **6.3 Surface Configuration**

### **6.4 Properties and Requirements**

### **6.5 Designation**

## 6.6 Delivery Conditions

### Appendix A - Purchasing Guidelines

### Appendix B - Isothermal Relaxation Test

### Appendix C - Examples of Surface Configurations

[Save](#)

[Feedback](#)


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


[Feedback](#)