STANDARDS AUSTRALIA

**RECONFIRMATION**

**OF**
**AS 2205.2.1—2003**
**Methods for destructive testing of welds in metal**
**Method 2.1: Transverse butt tensile test**

## RECONFIRMATION NOTICE

Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 12 January 2018.

NOTES

AS 2205.2.1—2003
Reconfirmed 2018

Australian Standard™



# Methods for destructive testing of welds in metal

# Method 2.1: Transverse butt tensile test

PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.2.1—1997.

The objective of this edition is to update the Standard and include editorial changes in accordance with current Standards Australia editorial policy.

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METHOD

## 1 SCOPE

This Standard sets out a method for transverse butt tensile testing of a welded joint.

## 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
1391 Methods for tensile testing of metals

2205 Methods for destructive testing of welds in metal
2205.1 Method 1: General requirements for tests

## 3 PRINCIPLE

A test specimen taken transversely from a butt welded joint containing weld metal and parent metal affected by welding is subjected to uniaxial tension. The transverse butt tensile strength is then determined.

## 4 PREPARATION OF TEST SPECIMEN

The test specimen shall be prepared in accordance with the requirements of AS 2205.1 and the following, as appropriate:

(a) Where prepared from plate, the form and dimensions of a single test specimen shall be in accordance with Figure 1(a). If multiple test specimens are required, they shall be taken from the test piece in such a way that the tensile tests cover the whole thickness of the welded joint. (Figure 1(b) shows a typical example.) The weld zone shall be located centrally in the parallel length, unless otherwise specified in the application code.