

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2205.8.1—2003

**Methods for destructive testing of welds in metal
Method 8.1: Longitudinal fillet shear 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

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PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.8.1—1997.

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

METHOD**1 SCOPE**

This Standard sets out a method for longitudinal fillet shear testing of a welded joint. The test determines the shear strength of a test specimen cut from a fillet welded joint having longitudinal welds.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

AS

2205 Methods for destructive testing of welds in metal

2205.1 Method 1: General requirements for tests

3 PRINCIPLE

A test specimen with longitudinal fillet welds is prepared in a specified manner. The lengths of the welds are measured. A force is applied to the test specimen until the welds rupture. The shear strength of the joint and the shear stress of the welds are calculated.

4 PREPARATION OF TEST SPECIMEN

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

- (a) It shall be prepared from full material thickness according to the shape and dimensions of Figure 1(a).
- (b) It shall be machined for the test as in Figure 1(b).