

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2505.1—2004

Metallic materials

Method 1: Sheet, strip and plate—Bend tests

RECONFIRMATION NOTICE

Technical Committee MT-009 has 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 20 March 2017.

The following are represented on Technical Committee MT-009:

Australasian Institute of Surface Finishing
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Steel Institute
Bureau of Steel Manufacturers of Australia
Galvanizers Association of Australia
Galvanizing Association of New Zealand
New Zealand Metal Roofing Manufacturers

NOTES

Metallic materials

Method 1: Sheet, strip and plate—Bend tests

PREFACE

This Standard was prepared by Standards Australia Committee MT-006, Mechanical Testing of Metals to supersede AS 2505.1—1981, *Methods for bend and related testing of metals*, Method 1: *Sheet, strip and plate*.

The objective of this revision is to introduce new testing methods of bending coated and uncoated metal sheet, strip and plate.

This Standard is Part 1 of a series of Standards on the methods of bending wire and related testing of metals. The series comprises the following:

AS

- 2505 Metallic materials
- 2505.1 Method 1: Sheet, strip and plate—Bend tests (this Standard)
- 2505.2 Method 2: Bars, rods and solid shapes—Bend tests
- 2505.3 Method 3: Tubular products—Bend and related tests
- 2505.4 Method 4: Wire—Reverse bend test
- 2505.5 Method 5: Wire—Simple torsion test
- 2505.6 Method 6: Wire—Wrapping test

METHOD

1 SCOPE

This Standard specifies methods for single and reverse bend testing of coated and uncoated metal sheet, strip and plate.

NOTES:

- 1 Criteria for assessment of the result are not included; such requirements are within the province of the product Standard, or determined by agreement between the purchaser and the supplier.
- 2 Where angles of bend of test pieces are specified in product Standards, they are considered to be minimum angles. However, where radii of bends of mandrels or formers are specified, they are considered to be maximum radii.

2 DEFINITIONS

For the purpose of this Standard, the following definitions apply:

2.1 Longitudinal bend test

A test in which the length of the test piece is parallel to, and the axis of the bend at right-angles to, the principal direction of rolling (see Figure 1).