

Australian Standard[®]

**GRAPHICAL SYMBOLS FOR
GENERAL ENGINEERING**

**Part 3 : WELDING AND NON-
DESTRUCTIVE EXAMINATION**

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Australian Welding Research Association
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PREFACE

This edition of this standard was prepared by the Association's Committee on Welding Definitions and Symbols, to supersede AS 1101, Graphical Symbols for General Engineering, Part 3—1979—Symbols for Welding. It is generally based on ANSI/AWS A2.4-79, Symbols for Welding and Nondestructive Testing, and the permission of the American Welding Society Inc. to use their standard is acknowledged.

The standard provides a scheme whereby complete details of welds and welded joints can be delineated on drawings. A separate section has been included establishing symbols for use on drawings to specify requirements for non-destructive examination for determining the soundness of materials.

The method for symbolic representation of welds on engineering drawings used in this standard is consistent with the 'third angle' method of projection, which is the preferred method given in AS 1100, Technical Drawing, Part 101—General Principles. It should be noted, however, that the scheme is equally appropriate to drawings in which the 'first angle' method of projection is used.

The committee noted the practice currently adopted in ISO 2553, Welds—Symbolic Representation on Drawings, in regard to the position of the symbols on drawings, viz the dual reference line, and felt that this situation should not be carried over into this standard. Therefore, the practice of using one continuous reference line remains unaltered in this edition.

Illustrations used with the text are intended only to show how symbols may be used to convey welding or testing information and do not necessarily represent good or accepted design practice.

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GRAPHICAL SYMBOLS FOR GENERAL ENGINEERING

PART 3—WELDING AND NON-DESTRUCTIVE EXAMINATION

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard describes symbols which provide the means of placing complete welding information on drawings. It covers the details and application of symbols related to various welding processes (including brazing), and non-destructive examination.

Appendix A gives a listing of abbreviations normally used for welding and allied processes. Appendix B shows the design of standard symbols, while Appendix C gives a typical example for the use of symbols on structural drawings.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard.

[AS 2536](#) Surface Texture

[AS 2812](#) Welding, Brazing and Coating of Metals — Glossary of Terms

1.3 DEFINITIONS. For the purpose of this standard, the definitions given in [AS 2812](#) shall apply.