



NSAI
Standards

Irish Standard
I.S. EN ISO 6947:2011

Welding and allied processes - Welding positions (ISO 6947:2011)

I.S. EN ISO 6947:2011

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Welding and allied processes - Welding positions (ISO 6947:2011)

Soudage et techniques connexes - Positions de soudage
(ISO 6947:2011)

Schweißen und verwandte Prozesse - Schweißpositionen
(ISO 6947:2011)

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Foreword

This document (EN ISO 6947:2011) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6947:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 6947:2011 has been approved by CEN as a EN ISO 6947:2011 without any modification.

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**INTERNATIONAL
STANDARD**

**ISO
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Third edition
2011-05-15

**Welding and allied processes — Welding
positions**

Soudage et techniques connexes — Positions de soudage



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 6947 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 7, *Representation and terms*.

This third edition cancels and replaces the second edition (ISO 6947:1990), which has been technically revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 7 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

Introduction

This International Standard provides positions for standard discrete test piece orientation PA, PB, H-L045, etc. that have been specified in this International Standard since the first edition (ISO 6947:1980).

In this revision, positions are defined for production welding. These positions are flat, horizontal, vertical, and overhead. Unlike testing positions, these positions are contiguous.

The direction of welding is an essential parameter for determining the welding position, e.g. up or down.

The welding position is not dependent on the geometrical arrangement of the joint, e.g. butt or fillet joint, or that of the semi-finished product. Welds of all types and in all directions are covered.

The main positions have been given symbols which can easily be used for designation purposes; these symbols were chosen independently of possible meaningful abbreviations, i.e. they are not derived from any particular language.

The relationship between testing positions and production welding positions is specified elsewhere, e.g. in ISO 9606^[1] or ISO 15614^[2].

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