KEEVITAMINE JA KÜLGNEVAD PROTSESSID. KEEVITUSASENDID

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



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

			This Estonian standard EVS-EN ISO 6947:2011 consists of the English text of the European standard EN ISO 6947:2011.
Standard on jõustun avaldamisega EVS Teataj	nud sellekohase jas.	teate	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 15.05.2011.			Date of Availability of the European standard is 15.05.2011.
Standard on Standardikeskusest.	kättesaadav	Eesti	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile <u>standardiosakond@evs.ee</u>.

ICS 25.160.40

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Aru 10, 10317 Tallinn, Eesti; koduleht <u>www.evs.ee</u>; telefon 605 5050; e-post <u>info@evs.ee</u>

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Aru 10, 10317 Tallinn, Estonia; homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 6947

May 2011

ICS 25.160.40

Supersedes EN ISO 6947:1997

English Version

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)

This European Standard was approved by CEN on 9 October 2010.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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

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

Con	ntents	Page
_	/.0	
	wordduction	
_	Scope	
1	Terms and definitions	
2		
3 3.1 3.2 3.3	Welding positions Main welding positions Welding positions for production Welding positions for testing	1 5
4	Designation	5
Anne	ex A (informative) Limits of the slope of a weld axis and the rotation of the weld face at the weld axis for welding positions in production welds	
Annex	x B (informative) Comparison of international, European and US designations	13
Biblio	ography	17
	ography	

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.

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

Welding and allied processes — Welding positions

1 Scope

This International Standard defines welding positions for testing and production, for butt and fillet welds, in all product forms.

Annex A gives examples of the limits of the slope of a weld axis and the rotation of the weld face about the weld axis for welding positions in production welds.

Annex B provides a comparison of International, European and US designations.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

welding position

position of a weld in space, which is defined relative to the slope of the axis and rotation of the face of the weld relative to the horizontal plane

2.2

main welding position

welding position, designated PA, PB, PC, PD, PE, PF or PG

NOTE For PA, PB, PC, PD and PE, see Figure 1.

2.3

slope

S

angle of the axis of the weld relative to the main welding position

2.4

rotation

R

angle of the face of the weld relative to the main welding position

2.5

inclined angle

L

angle of the axis of the pipe

3 Welding positions

3.1 Main welding positions

The main welding positions are illustrated in Figure 1 with examples of their application for butt and fillet welds in Figure 2.