

ISO 2553:2013-12 (E)

Welding and allied processes - Symbolic representation on drawings - Welded joints

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Welding symbol	4
4.1	General	4
4.2	Basic welding symbol	4
4.3	Welding symbol systems	5
4.4	Elementary symbols	5
4.5	Supplementary symbols	9
4.6	Arrow line	14
4.7	Reference line and weld location	16
4.8	Tail	19
5	Dimensioning of welds	19
5.1	General	19
5.2	Cross-sectional dimensions	19
5.3	Length dimensions	19
5.4	Butt welds	20
5.5	Fillet welds	21
5.6	Plug welds in circular holes	21
5.7	Plug welds in slots	21
5.8	Spot welds	22
5.9	Seam welds	22
5.10	Edge welds	22
5.11	Stud welds	22
5.12	Overlay welds	22
6	Dimensioning of joint preparations	34
6.1	General	34
6.2	Root gap	34
6.3	Included angle	34
6.4	Radii and root faces -- U and J butt joints	35
6.5	Depth of joint preparation	35
6.6	Countersink angle for plug and slot welds	37
7	Alternative butt weld symbol with required weld quality	38
7.1	General	38
7.2	Example	38
Annex A (informative)	Examples of the use of welding symbols	39
Annex B (informative)	Tolerances and transition points for weld types[9]	50
Annex C (informative)	Alternative methods for designating intermittent butt and fillet welds	51
Bibliography		54