

# Welding Symbol Chart

Basic Welding Symbols and Their Location Significance								
Location Significance	Fillet	Plug or Slot	Spot or Projection	Stud	Seam	Back or Backing	Surfacing	Edge
Arrow Side								
Other Side				Not Used			Not Used	
Both Sides		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	
No Arrow Side or Other Side Significance	Not Used	Not Used		Not Used		Not Used	Not Used	Not Used
Location Significance	Groove							Scarf for Brazed Joint
	Square	V	Bevel	U	J	Flare-V	Flare-Bevel	
Arrow Side								
Other Side								
Both Sides								
No Arrow Side or Other Side Significance		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used

  

Supplementary Symbols				Location of Elements of a Welding Symbol			
<b>Weld-All-Around</b>	<b>Field Weld</b>	<b>Melt-Thru</b>	<b>Consumable Insert</b>	<b>Finishing Symbol</b>	<b>Contour Symbol</b>	<b>Groove Weld Size</b>	<b>Groove Angle; Included Angle of Countersink for Plug Welds</b>
<b>Backing/Spacer (Rectangular)</b>	<b>Contour</b>			<b>Depth of Bevel; Size or Strength for Certain Welds</b>	<b>Root Opening; Depth of Filling for Plug and Slot Welds</b>	<b>Length of Weld Segment</b>	<b>Pitch (Center-to-Center Spacing) of Weld Segments</b>
	<b>Flush or Flat</b>	<b>Convex</b>	<b>Concave</b>	<b>Specification, Process, or Other Reference</b>	<b>Field Weld Symbol</b>	<b>Weld-All-Around Symbol</b>	<b>Weld Symbol</b>
				<b>T</b>	<b>S(E)</b>	<b>L-P</b>	<b>Arrow Connecting Reference Line to Arrow Side Member of Joint or Arrow Side of Joint</b>
<b>Basic Joints Identification of Arrow Side and Other Side Joint</b>				<b>Letter Designations</b>			
<b>Butt Joint</b>	<b>Corner Joint</b>			Where letter designations are to be included in the tail of the welding symbol, reference is made to Table 1, Letter Designations of Welding and Allied Processes and Their Variations, of AWS A2.4-98.			
				American Welding Society 550 N.W. Lejeune Road Miami, Florida 33126			
<b>T-Joint</b>	<b>Lap Joint</b>						
<b>Edge Joint</b>							

Typical Welding Symbols		
<b>Double-Fillet Welding Symbol</b>	<b>Chain Intermittent Fillet Welding Symbol</b>	<b>Staggered Intermittent Fillet Welding Symbol</b>
<b>Plug Welding Symbol</b>	<b>Back Welding Symbol</b>	<b>Backing Welding Symbol</b>
<b>Spot Welding Symbol</b>	<b>Stud Welding Symbol</b>	<b>Seam Welding Symbol</b>
<b>Square-Groove Welding Symbol</b>	<b>V-Groove Welding Symbol</b>	<b>Double-Bevel-Groove Welding Symbol</b>
<b>Symbol with Backgouging</b>	<b>Flare-V-Groove Welding Symbol</b>	<b>Flare-Bevel-Groove Welding Symbol</b>
<b>Multiple Reference Lines</b>	<b>Complete Joint Penetration</b>	<b>Edge Welding Symbol</b>
<b>Flash or Upset Welding Symbol</b>	<b>Melt-Thru Symbol</b>	<b>Joint with Backing</b>
<b>Joint with Spacer</b>	<b>Flush Contour Symbol</b>	<b>Convex Contour Symbol</b>