

WELDED JOINTS – STANDARD SYMBOLS

WELDED JOINTS Standard symbols

BASIC WELD SYMBOLS														
BACK	FILLET	PLUG OR SLOT	GROOVE OR BUTT											
			SQUARE	V	BEVEL	U	J	FLARE V	FLARE BEVEL					
SUPPLEMENTARY WELD SYMBOLS														
BACKING	SPACER	WELD ALL AROUND	FIELD WELD	CONTOUR		For other basic and supplementary weld symbols, see AWS A2.4-79								
				FLUSH	CONVEX									
STANDARD LOCATION OF ELEMENTS OF A WELDING SYMBOL														
Finish symbol	Contour symbol	Root opening, depth of filling for plug and slot welds	Effective throat	Depth of preparation or size in inches	Reference line	Specification, process or other reference	Tail (omitted when reference is not used)	Basic weld symbol or detail reference	Groove angle or included angle of countersink for plug welds	Length of weld in inches	Pitch (c. to c. spacing) of welds in inches	Field weld symbol	Weld-all-around symbol	Arrow connects reference line to arrow side of joint. Use break as at A or B to signify that arrow is pointing to the grooved member in bevel or J-grooved joints.

Note:

Size, weld symbol, length of weld and spacing must read in that order from left to right along the reference line. Neither orientation of reference line nor location of the arrow alter this rule.

The perpendicular leg of Δ , V , P , ∇ weld symbols must be at left.

Arrow and Other Side welds are of the same size unless otherwise shown. Dimensions of fillet welds must be shown on both the Arrow Side and the Other Side Symbol.

The point of the field weld symbol must point toward the tail.

Symbols apply between abrupt changes in direction of welding unless governed by the "all around" symbol or otherwise dimensioned.

These symbols do not explicitly provide for the case that frequently occurs in structural work, where duplicate material (such as stiffeners) occurs on the far side of a web or gusset plate. The fabricating industry has adopted this convention: that when the billing of the detail material discloses the existence of a member on the far side as well as on the near side, the welding shown for the near side shall be duplicated on the far side.