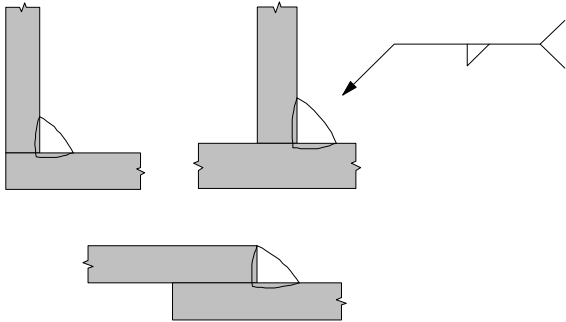
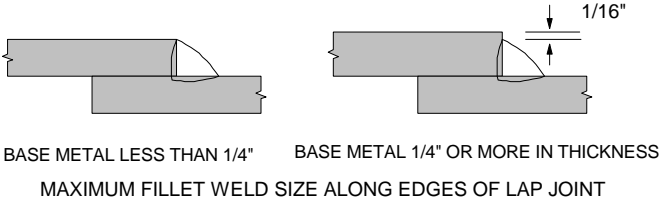




# GIBBONS ERECTORS

## Welding Procedure Specification

Fillet Welds  
Tee, Corner, Lap



MINIMUM FILLET WELD SIZES	
BASE METAL THICKNESS (T)	MINIMUM SIZE OF FILLET WELD
$T \leq 1/4"$	1/8
$1/4 < T < 1/2"$	3/16
$1/2 < T < 3/4"$	1/4
$3/4" < T$	5/16

Welding Process	Joint Designation	Base Metal Thickness (U=unlimited)		Root Opening	Tolerances		Permitted Welding Positions	Weld Size	Notes
		T1	T2		As Detailed	As Fit Up			
		SMAW	Fillet		.125 min	-			

**MEMO**

PREHEAT: WHEN THE BASE METAL TEMPERATURE IS BELOW 32 DEGS. F., THE BASE METAL SHALL BE PREHEATED TO A MINIMUM OF 70 DEGS. F. AND THE MINIMUM INTERPASS TEMPERATURE SHALL BE MAINTAINED DURING WELDING. PREHEAT:

PREHEAT TEMPERATURES SHOWN ARE FOR GROUP II MATERIALS, GROUP I MATERIALS ARE:

- 1/8 TO 3/4 IN. - 32 DEGS F.
- 3/4 THRU 1-1/2 IN. INCL - 150 DEGS F.
- OVER 1-1/2 THRU 2-1/2 IN - 225 DEGS. F.
- OVER 2-1/2 IN. - 300 DEGS. F.

This WPS applies to joints where the minimum angle between the joined pieces is 60 degs. and the maximum angle is 135 degs. The provisions of weld sizes and base metal thicknesses can be found in AWS D1.1-2004 Section 2.8 & 3.9. Acceptable weld profiles are defined in Figure 5.4

Fillet Weld Assembly. The parts to be joined by fillet welds shall be brought into as close contact as practicable. If the separation is greater than 1/16 in. (1.6 mm), the leg of the fillet weld shall be increased by the amount of the root opening. Fit up separations greater than 3/16 in. (5 mm) are unacceptable without prior approval of the engineer and demonstration that the required effective throat has been attained.