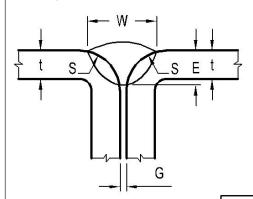
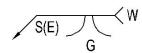
Prepared By: WeldCanada.com, Inc.		PREQUALIFIED WELL	DING PROCEDURE	WPDS No.	DEMO-FCAW			
		DATA SI	HEET	Ref. WPS	FCAW-CS			
Company Name: ww	w.WeldCanad	la.com	Ref.	AWS D1.3/ CSA W47.1				
Address: info@Weld	Canada.com,	Toll Free: 1 (877) WPS-WELD		Standards	AWS D1.5/ CSA W47.1			
Process	FCAW	Process Mode	Semi-Automatic	Positions	F, H, V (up), OH			
<b>Base Materials</b>		Steels in Groups I and II of Table 1.2 of AWS D1.3						
Wire Class. (CSA W48)		E491T-11-H8, E491T-11-H16 (FCAW-S)						
AWS Classification		A5.20, E71T-11, E71T-11 H16 (FCAW-S)						
Shielding Gas				Flow Rate	N/A			
Flux (SAW)		Self-Shielded (FCAW-S)		Nozzle Dia.	5/8 in			
Weld Type		Partial Joint Penetration Groove Weld		Current/ Polarity	DCEN			
Electrical Stick Out			Preheat/ Interpass Temperature, Min		0 °C (32°F), Clause 5.1-AWS D1.3			
ESO (in)		1/2 to 3/4			Surfaces free from moisture			

## Joint Configuration/ Joint Details:





$$W(\text{weld face width}) = 2 \ t \ (\text{min}) \\ S = 2 \ t \ (\text{min}) \\ E = t$$

Thickness Root Opening (G)

18 Ga. (min) 0 (min)

11 Ga. (max) t / 2 (max)

## Figure 3.3 C

## Welding Parameters:

Thickness (T) mm (in)	Weld Size ETT (E)	Side	Weld Layers	Pass Numbers	Filler Dia. mm (in)	Current Amps	Volts V	Wire Feed Speed (IPM)	Travel Speed (IPM)
18 Ga. to 12 Ga.	As shown in Sketch		1 to 2	1 to 2	1.1/ 1.2 mm (0.045)	120	15	70	10 to 25
		1				140	16	90	
						160	17	110	
						170	18	130	

Notes or Code's rules:

-Depending upon welding position, weld type, surface condition or other factors, voltage and/or wire feed speed may need to be adjusted.

-Thickness limited to less than 3 mm, as per CSA W47.1

John Smith, Welding Engineer

**CWB** Acceptance



Caution Note: Use of prequalified joint is not intended as a substitute for engineering judgment in the suitability of application to a welded assembly or connection.