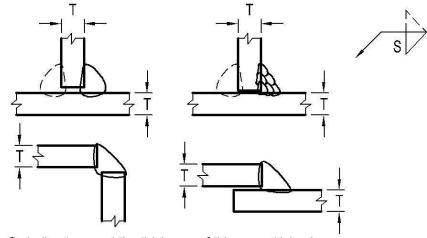
Prepared by: Entec Consultants, Inc		WELDING PROCEDURE		Identification #	FCAW3143		
		SPECIFIC	ATION (WPS)	Ref. Code	AWS D1.1		
Company Name: <i>R</i> Address: <i>5 New Co</i>	0	hoes, New York, 12047,	PQR No.	PREQUALIFIED			
Process	FCAW	Process Type	Semi-Automatic	Position	F, H, V (up), OH		
Base Metals		Steels in Groups I and II of Table 3.1 of AWS D1.1					
Filler Metals		AWS A5.20: E71T-1C, E71T-1C H4, E71T-1C H8 (Or) E71T-1M, E71T-1M H4, E71T-1M H8					
Shielding Gas		100% CO2 for -1C Wire ; Ar+ 20 to 25% CO2 for -1M Wire		Flow Rate	35-45 CFH		
Flux (SAW)				Nozzle Dia.	5/8 in		
Current Type/ Polarity		DCEP		Weld Type	Fillet Weld		
Electrical Stick Out ESO (in)		519 4- 214	Preheat/	Up to 20 mm (3/4	b): 0 C (32 F);		
		5/8 to 3/4	Interpass Temp., Min	Table 3.2-AWS I	01.1 for more		

Joint Details/ Joint Design Used/ Sketch:



Minimum Fillet Weld Size					
Table 5.8 of AWS D1.1					
Thickness	Weld Size, S				
in	Single Pass				
$T \leq \frac{1}{4}$	$\frac{1}{8} \left(\frac{3}{16} \right)^{*}$				
$T \leq \frac{1}{2}$	<u>3</u> 16				
$T \leq \frac{3}{4}$	<u>1</u> 4				
$T > \frac{3}{4}$	<u>5</u> 16				

* For cyclically loaded structure

S shall not exceed the thickness of thinner part joined.

Maximum weld size (S) shall be (a) T for T < $\frac{1}{4}$ in, (b) T - $\frac{1}{16}$ in for T $\ge \frac{1}{4}$ in

Welding Procedure:

				r					
Weld Size (S) mm (in)	Side	Weld Layers	Pass No.	Filler Metal Diameter mm (in)	Current Amps	Volts	Wire Feed Speed (IPM)	Travel Speed (IPM)	
5 mm (3/16)		1	1	1.1/ 1.2 mm (0.045)	180-200	26-27	270-310	8 to 15	
6 mm (1/4)		1	1						
8 mm (5/16)	1	1	1		220-240	27-29	350-400		
10 mm (3/8)	or	2	3						
12 mm (1/2)	2	2	3		250-290	29-31	420-500		
16 mm (5/8)		3	5						
>=20 mm (3/4)		4+	7+						
Notes, Technique				Originated by:					
-If using Ar+20-2. -Depending upon voltage and/or wi -Shielding gases s -The end of conta	welding re feed s hall con ct tube	g position, speed may form to A	, weld type, su y need to be a WS A5.32/A	Entec Consultants Inc.					
at least 6 mm (1/4	.).			Date: 01, 28, 2010 Revision (1)					
							Authorized by:		
							Reo Welding Co, Inc.		
						Date: 01,	28, 2010		
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.									