

WELDING PROCEDURE SPECIFICATION (WPS) Yes
PREQUALIFIED QUALIFIED BY TESTING _____
or PROCEDURE QUALIFICATION RECORDS (PQR) Yes

Company Name LECO
 Welding Process(es) SAW
 Supporting PQR No.(s) Prequalified

Identification # W2081
 Revision 2 Date 1-3-89 By R. Jones
 Authorized by C. W. Hayes Date 1-3-89
 Type—Manual Semiautomatic
 Mechanized Automatic

JOINT DESIGN USED

Type: Butt
 Single Double Weld
 Backing: Yes No
 Backing Material: ASTM A 36
 Root Opening 5/8" Root Face Dimension —
 Groove Angle: 20° Radius (J-U) —
 Back Gouging: Yes No Method —

BASE METALS

Material Spec. ASTM A 36
 Type or Grade —
 Thickness: Groove 1" Fillet —
 Diameter (Pipe) —

FILLER METALS

AWS Specification A5.17
 AWS Classification EM12K

SHIELDING

Flux 860 Gas —
 Composition —
 Electrode-Flux (Class) F7A2-EM12K Flow Rate —
 Gas Cup Size —

PREHEAT

Preheat Temp., Min. 150°F
 Interpass Temp., Min. 150°F Max. 350°F

POSITION

Position of Groove: F Fillet: —
 Vertical Progression: Up Down

ELECTRICAL CHARACTERISTICS

Transfer Mode (GMAW) Short-Circuiting
 Globular Spray
 Current: AC DCEP DCEN Pulsed
 Power Source: CC CV
 Other _____
 Tungsten Electrode (GTAW)
 Size: _____
 Type: _____

TECHNIQUE

Stringer or Weave Bead: Stringer
 Multi-pass or Single Pass (per side) Multipass
 Number of Electrodes 1
 Electrode Spacing Longitudinal —
 Lateral —
 Angle —
 Contact Tube to Work Distance 1-1/4"
 Peening None
 Interpass Cleaning: Slag Removed

POSTWELD HEAT TREATMENT

Temp. N.A.
 Time —

WELDING PROCEDURE

Pass or Weld Layer(s)	Process	Filler Metals		Current		Volts	Travel Speed	Joint Details
		Class	Diam.	Type & Polarity	Amps or Wire Feed Speed			
1-n	SAW	EM12K	5/32"	DC+	45 ipm 550 Amps ±10%	28 v ±7%	16 ipm ±15%	

Form N-1 (Front)