

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

09/09/2015

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Shielded Metal Arc Welding – Flat and Horizontal

PRIMARY DEVELOPER: Kevin Ridge, Welding Instructor, Henry Ford College

Project 4 - Specification and Print

Weld Type	CJP Groove
Welding Process	SMAW
Position	Horizontal
Material	¼" Steel
Joint Type	Vee Butt
Backing Option	No Backer
Backing Material	

Polarity	DC+
Electrode	E6010 3/32, E7018 3/32
Transfer Mode	
Tungsten Electrode	
Shielding Gas	
Flow Rate	
Cup Size	

Welding Procedure												
Weld Layers	Pass No.	Process	Filler Metal Classification	Filler Metal Diameter in (mm)	Current Amps	Current Type and Polarity	Wire Feed Speed	Volts	Remarks			
Stringer	Root	SMAW	E6010	3/32	50a	DC+						
	Fill	u	E7018	3/32	75a	u						
	Cover	u u	E7018	3/32	75a	u u						







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Number of Electrodes: 1-2

Technique: Root Pass performed with E6010 3/32 for CJP. Fill and Cover Passes performed with E7018

3/32.

Initial/Interpass Cleaning: Chip and Brush

Heat Treatment:

Preheat Temperature:

Post Heat Temperature:

Interpass Temperature: Quench between passes

Stress Relieving:

Additional Notes: Show instructor progress every 30 minutes, minimum.







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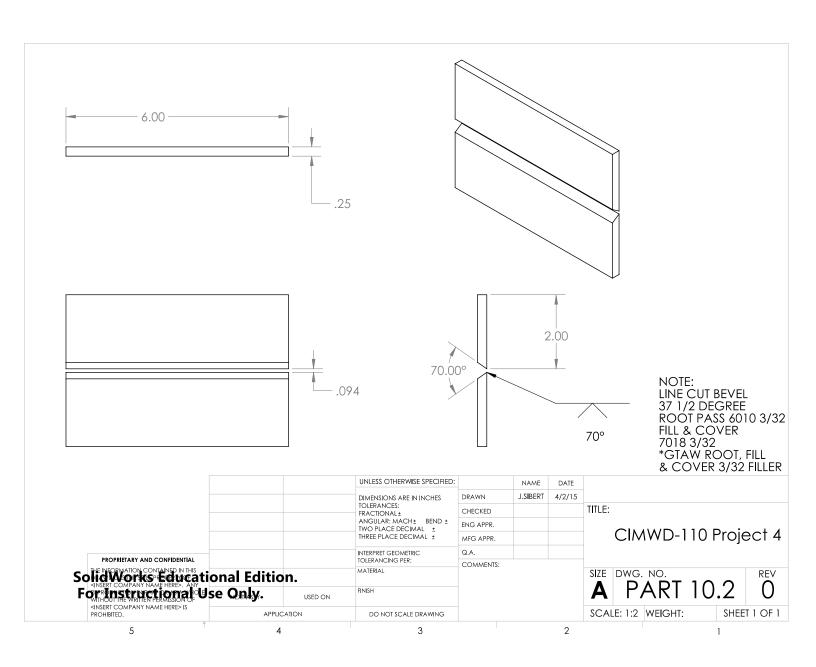
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