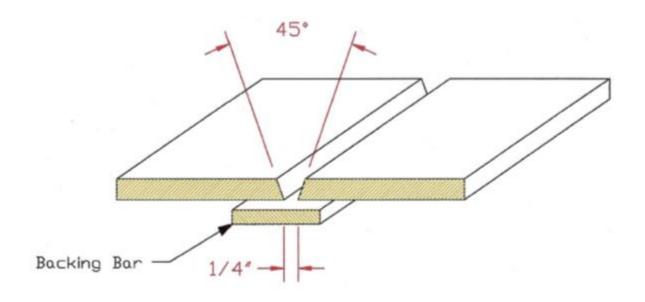
# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 1G PLATE CERTIFICATION TEST (SIP WELDER) WELDING PROCEDURE SPECIFICATION (WPS) AWS D1.5

Specifications & Codes:			NCDOT Standard Specifications/AASHTO/AWS D1.5					
Material Specifications:				ASTM A-3	36, 3/8" THICK			
Welding Process: SMA			Manual o		or Semi- Automatic or Automatic:		Manual	
Filler Metal Specification:			WS A5.1 Classifi		cation:	E-7018 Position of		
Manufacturer: Made in th		de in the US	•		Multiple	Weld	Flat	
Welding Current:		DC	Polarity:	Posi	tive	Progression:	N/A	
Root Trea	tment:							
Preheat Temp: 50°		° minimum	Interpass	450° m	naximum	Post Heat:	N/A	
Pass Num.	Electrode Size	Welding Amperes	Current Volts	Travel Speed		Joint Details		
AII AII	3/32" 1/8"	<u>70 - 110</u> <u>90 - 140</u>	Ampere Controlled	4–11 ipm 4–11 ipm		SEE ATTACHMENT		
PREHEAT Thickness Min. Temp. Up to 3/4" 50°			The Rem	COMMENTS: The backing bar must be in close contact with the test material.  Remove all rust and mill scale within one inch of the area to be welded prior to fit-up. Remove all slag and spatter between passes. Clean the completed weld of all debris, slag, and spatter.				
Fill the groove to the full cross section of the member.								
		SIP Weld fication Test	Written By:		Michae	Michael Pulley, CWI, Metals Products Specialist		
			Signature:		Mi	ichael Pulley	Date: 11/04/2021	
WPS #:		40209011	Autho	orized By:	Randy	Porter, CWI, Metals	s Engineer	
Revision #	<b>#</b> :	4	Signa	ture:				
Revision Date: 11/		1/04/2021	<u> </u>		Sta	phen R Port	Date: 11/04/2021	

## WPS 1G PLATE CERTIFICATION TEST 040209011 R4 JOINT DETAIL ATTACHMENT

#### **1G Position**



## 1G Groove Weld Joint Details

Weld Symbol definitions per AWS A2.4:2007



### **Illustrations for Plate Weld Tests**

### Unacceptable Weld



