

Highway Safety Corporation

Glastonbury, CT

Welding Procedure Specification

Material specification A572 gr 50, A709 Gr 50

Welding process Gas Metal Arc Welding (GMAW) Spray Transfer

Manual, semi-automatic, or automatic Semi-Automatic

Position of welding Flat (1F) or Horizontal (2F)

Filler metal specification AWS A5.18

Filler metal classification ER70S-6

Electrode and manufacturer Lincoln Electric Lincoln Weld L-56

Flux and manufacturer N/A

Shielding gas 86% Argon / 14% CO2 Flow rate 35-45 CFM CFH

Single or multiple pass Single or Multiple

Single or multiple arc Single

Welding current DCEP

Polarity Reverse - electrode positive

Welding progression Stringers

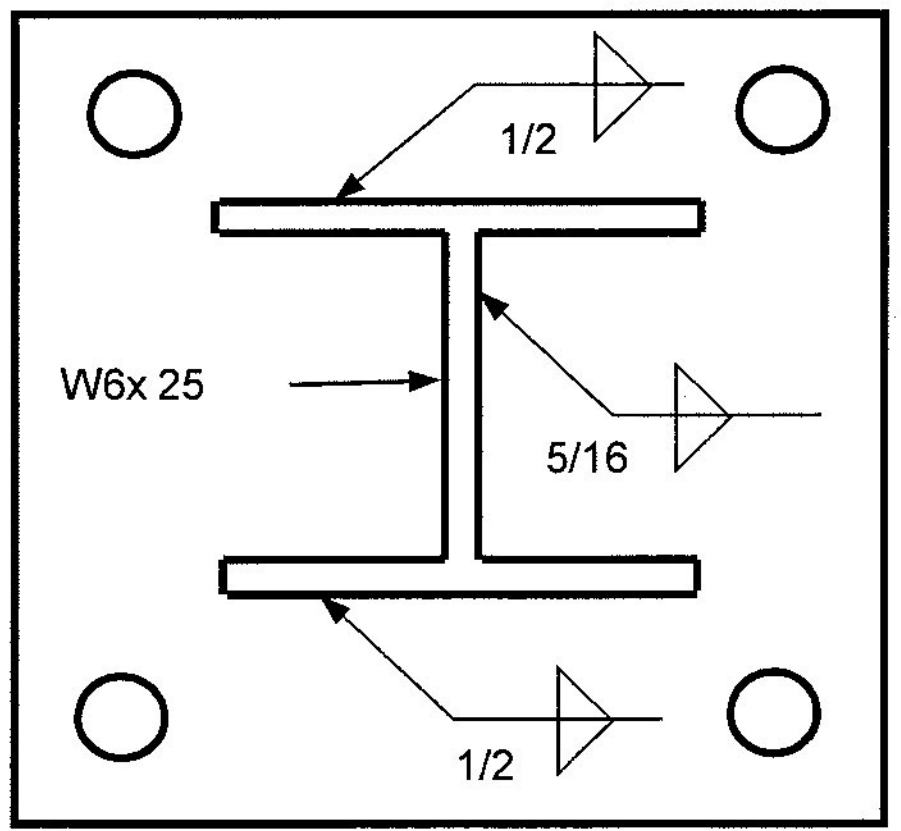
Root treatment clean base metal

Preheat and interpass temperature base metal up to 3/4" (50°F) ; over 3/4 thru 1-1/2" (150°F) : over 1-1/2" thru 2-1/2" (225°F)

Postheat treatment None

Electrode extension 3/4" ± 1/4"

WELDING PROCEDURE

Weld size	Pass no.	Electrode size	Welding parameters		Travel speed	Joint detail
			Amperes	Volts		
5/16"	1	0.062"	300 A ± 30	29 V ± 2	15 ipm ± 2	
1/2"	1 & 2	0.062"	↓	↓	15 ipm ± 2	
<p style="color: green; font-weight: bold; font-size: 1.2em;">Vermont Agency of Transportation</p> <p style="color: green; font-weight: bold; font-size: 2em;">RECEIVED</p> <p style="font-size: 0.8em; margin: 0;">CK'D BY _____ OK'D BY <u>Rob Young</u></p> <p style="color: blue; font-weight: bold; font-size: 1.1em;">January 22, 2016</p> <p style="font-size: 0.8em; margin: 0;">RESUBMIT <u>NO</u> Approved <u>AsNoted</u></p> <p style="font-size: 0.8em; margin: 0;">BY <u>Rob Young</u> DATE <u>02/18/2016</u></p>						

This procedure may vary due to fabrication sequence, fit-up, pass size, etc. within the limitation of variables given in section 5 of latest edition AWS D1.5

WPS no. W-VTPEDPOST2 Fabricator Highway Safety Corporation

Revision no. 0 Prepared By: Paul Radice

Supporting PQR no. ~~Pre-Qualified~~ W-AWSD1511 Date 01/21/16

Project Name Waitsfield, Vermont Project Number BRF 013-4(39)

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