

Casco Bay Steel Structures, Inc.

WELDING PROCEDURE SPECIFICATION

Material specification ASTM Gr 50 + 50W
 Welding process Submerged ARC welding
 Manual or machine Machine
 Position of welding Flat + Horizontal
 Filler metal specification AWS A5-23
 Filler metal classification E8A2-ENIK-Ni1-H8
 Flux Lincoln 960-Elec LA-75
 Shielding gas NA Flow rate NA
 Single or multiple pass Single + Multiple
 Single or multiple arc Single
 Welding current DC
 Polarity DCRP
 Welding progression See Detail
 Root treatment Grind-wire Brush-Area Free of slag-RUST & Moisture
 Preheat and interpass temperature See Table
 Postheat temperature NA
 Heat Input Min 5.3 kJ/in Max 73.4 kJ/in PCR-1 = 64.1 kJ/in

Vermont Agency of Transportation

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CK'D BY JWC OK'D BY
 November 4, 2013

RESUBMIT No Approved
 BY James Lacroix DATE 11/08/13

VT-ADT; Bristol
 Bridge No. 31
 Proj No. BRD 1445 (32)
 C.B.S.S. No. 534

Minimum Preheat and Interpass Temperature, °C [°F]

Welding Process (Base Metal)	Thickness of Thickest Part at Point of Welding, mm [in]			
	To 20 mm [3/4 in] Incl.	Over 20 mm [3/4 in] to 40 mm [1-1/2 in] Incl.	Over 40 mm [1-1/2 in] to 65 mm [2-1/2 in] Incl.	Over 65 mm [2-1/2 in]
SAW; OMAW; FCAW; SMAW (M270M [M270] [A 709M (A 709)] Cr. 250 [36], 345 [50], 345W [50W], HPS 345W [HPS 30W])	10 [50]	20 [70]	65 [150]	110 [225]
SAW; OMAW; FCAW; SMAW (M270M [M270] [A 709M (A 709)] Cr. HPS 485W [HPS 70W], 690 [100], 690W [100W])	10 [50]	30 [125]	80 [175]	110 [225]

WELDING PROCEDURE

Max Interpass - 430^{oF}

Pass no.	Electrode size	Welding current		Travel speed
		Amperes	Volts	
5 32	5/32	620	31	18 IPM
		570	29	15
		70	70	70
		650	33	20

See 5.13
 AWS D1-5 Joint detail B.L1a-5

This procedure may vary due to fabrication sequence, fit-up, pass size, etc., within the limitation of variables given in applicable A.W.S. codes or contract specifications

Procedure no. 202^A ST OF VT

Revision no. _____

Contractor Casco Bay Steel

Authorized By Paul E. [Signature]

Date April-13-2012