

3. Material specification(s) ASTM A709 Gr. 36, 50, 50W, 304SS, 316SS
4. Material Thickness (es) Unlimited
5. Welding process GTAW
6. Manual , machine , or semiautomatic
7. Position(s) of welding 1F, 2F
8. Filler metal specification AWS A5.9
9. Filler metal class and brand name ER309L (Murrex)
10. Flux class & brand N/A , Type N/A
11. Shielding gas 100% Argon Flow rate 20 CFH
12. Single pass Or multiple pass
13. Single arc Or multiple arc
14. Welding Current DCEN
15. Polarity Straight
16. Welding progression stringers
17. Root treatment Clean to bright sound metal or per AWS D1.5 (3.2.1 & 3.11)
18. Postheat treatment N/A
19. Calculated Heat Input (KJ/In) Min 10.9 KJ Max 20.4 KJ
20. Electrode extension (electrical stickout) N/A

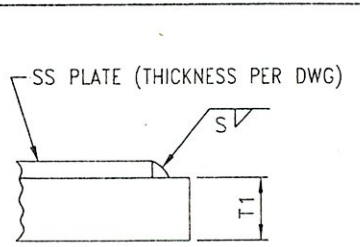
VT TRANS RECEIVED

OK'D BY _____ OK'D BY JWC

JUN 05 2008

RESUBMIT _____ APPROVED

DATE 6/12/08

| Weld size (In) | Pass No(s) | Electrode Size (In) | Welding Process Variables | | Travel Speed (IPM) | Joint Detail (Flare Bevel) Show all dimensions, weld sizes, passes, and AWS symbols |
|----------------|------------|---------------------|---------------------------|-------|--------------------|--|
| | | | AMPS/WFS* | VOLTS | | |
| 20 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 |  <p>T₁ = Varies S = Fillet Weld Size (Fillet weld must not exceed thickness of stainless steel)</p> |
| 16 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 14 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 12 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 11 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 10 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 8 ga. | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |
| 3/16" | 1 | 1/8" | 170-200 | 15-17 | 10-14 | |

* Wire feed speed may be used along with amperage (include chart)

Prepared By: James R. Connor DSB QA Manager

Project: _____

DSB Job: 23160-1112

| Preheat and Interpass Temperature Chart | | |
|---|----------------------|------------------------------|
| Base Metal Thickness range | Minimum Preheat (°F) | Max Preheat & Interpass (°F) |
| ≤3/4" | 50°F | 450°F |
| >3/4" to ≤1.5" | 70°F | 450°F |
| >1.5" to ≤2.5" | 150°F | 450°F |
| >2.5" | 225°F | 450°F |

Note: When this procedure is used for A709Gr50W materials, it shall be limited to 5/16" single pass or material be coated.