

Diameter: .045"

Shielding Gas: C1 (100% CO2)

Current/Polarity: DCEP

Classification: E71T-1 H8, E71T-9 H8 **Specification:** AWS A5.20/A5.20M:2005

Test Completed: 8/16/2024

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

This is to certify that the product named herein is of the same classification, manufacturing process, and material requirements as the material used for the tests completed on the date shown, the results of which are recorded below. All tests required by the code or specifications were performed at that time and the material tested met all requirements. The product was manufactured and supplied by the Quality Management System of Hobart Brothers, which meets the requirements of ISO 9001:2015, ANSI/AWS A5.01, and other specification and Military requirements, as applicable.

Test Settings	High Heat Input	Low Heat Input	Lot-# F000852301	AWS D1.8	High Heat Input	Low Heat Input
	84.4 kJ/in	26.7 kJ/in	Mechanical Properties	Requirements	84.4 kJ/in	26.7 kJ/in
Voltage	25	26	Test Reference #		PE2544	PE2551
Current (amps)	225	250				
WFS (ipm)	380	450				
Travel Speed (ipm)	4	14.6	Tensile Strength (psi)	70,000	80,400	93,100
Stick Out `	3/4"	3/4"	Yield Strength (psi)	58,000	69,900	87,000
# of passes	8	20	Elongation (%)	22	27	22
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	116	106
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot-# B611752703191	AWS D1.8	High Heat Input	Low Heat Input
	80.4 kJ/in	27.9 kJ/in	Mechanical Properties	Requirements	80.4 kJ/in	27.9 kJ/in
Voltage	25	26	Test Reference #		PD6265	P6266
Current (amps)	225	250				
WFS (ipm)	385	450				
Travel Speed (ipm)	4.2	14	Tensile Strength (psi)	70,000	80,920	89,800
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	72,700	83,500
# of passes	8	20	Elongation (%)	22	28	23
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	122	109
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				
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Test Settings	High Heat Input	Low Heat Input		Lot-# J60547	AWS D1.8	High Heat Input	Low Heat Input
	80.4 kJ/in	30.3 kJ/in		Mechanical Properties	Requirements	80.4 kJ/in	30.3 kJ/in
Voltage	25	26	1	Test Reference #		PE8214	PE8515
Current (amps)	225	250					
WFS (ipm)	385	450					
Travel Speed (ipm)	4	13.2		Tensile Strength (psi)	70,000	83,100	91,300
Stick Out `	3/4"	3/4"		Yield Strength (psi)	58,000	73,300	85,600
# of passes	8	16		Elongation (%)	22	27	24
# of layers	4	7		Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT		Impact Properties ft•lbs @	40	120	118
Interpass Temp. ⁰F	500+/-50	200+/-25		+70 °F			
Weld Position	3G	1G					

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M											
Condition	Lot -#	Test Reference #	Average (ml/100g)								
As Received	J60547	HB7665	6 (ml/100g)								
7 Day Exposure	(0)										

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James Owens, Quality Assurance Specialist



Diameter: .045"

Shielding Gas: M21-ArC-25 **Current/Polarity:** DCEP

Classification: E71T-1M H8, E71T-9M H8 **Specification:** AWS A5.20/A5.20M:2005

Test Completed: 8/16/2024

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot-# F000852301	AWS D1.8	High Heat Input	Low Heat Input
	82.3 kJ/in	26.8 kJ/in	Mechanical Properties	Requirements	82.3 kJ/in	26.8 kJ/in
Voltage Current (amps)	25 225	25 250	Test Reference #		PE2546	PE2555
WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	380 4.1 3/4" 8 4 300+/-25 500+/-50 3G	450 14 3/4" 20 7 RT 200+/-25	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	82,500 72,000 27 127	98,900 95,500 22 107

Test Settings	High Heat Input	Low Heat Input	Lot-# B614611305181	AWS D1.8	High Heat Input	Low Heat Input
	80.4 kJ/in	28.4 kJ/in	Mechanical Properties	Requirements	80.4 kJ/in	28.4 kJ/in
Voltage	25	26.5	Test Reference #		PD6466	PD6465
Current (amps)	225	250				
WFS (ipm)	385	460				
Travel Speed (ipm)	4.2	14	Tensile Strength (psi)	70,000	90,500	99,400
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	79,000	93,900
# of passes	8	18	Elongation (%)	22	32	23
# of layers	4	8	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	120	81
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot-# J60547	AWS D1.8	High Heat Input	Low Heat Input
	78.6 kJ/in	29.2 kJ/in	Mechanical Properties	Requirements	78.6 kJ/in	29.2 kJ/in
Voltage	25	25	Test Reference #		PE8212	PE8213
Current (amps)	225	250				
WFS (ipm)	385	450				
Travel Speed (ipm)	4	14	Tensile Strength (psi)	70,000	88,700	100,000
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	77,300	94,100
# of passes	8	19	Elongation (%)	22	31	23
# of layers	4	5	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	114	98
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M									
Condition	Lot -#	Test Reference #	Average (ml/100g)						
As Received	J60547	HB7596	6 (ml/100g)						
7 Day Exposure	J60547	HB7739	8 (ml/100g)						

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James Owens, Quality Assurance Specialist



Diameter: .052"

Shielding Gas: C1 (100% CO2)

Current/Polarity: DCEP

Classification: E71T-1C; E71T-9C H8 Specification: AWS A5.20/A5.20M:2005

Test Completed: 6/14/2024

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot-# J01328	AWS D1.8	High Heat Input	Low Heat Input
	80.9 kJ/in	29.7 kJ/in	Mechanical Properties	Requirements	80.9 kJ/in	29.7 kJ/in
Voltage	24	26	Test Reference #		PE8109	PE8108
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	220 245 4 3/4" 8 4 300+/-25 500+/-50 3G	260 360 14.5 3/4" 18 7 RT 200+/-25 1G	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	81,500 71,100 31 93	92,800 85,900 26 120

Test Settings	High Heat Input	Low Heat Input	Lot-# J01257	AWS D1.8	High Heat Input	Low Heat Input
	81.5 kJ/in	30.9 kJ/in	Mechanical Properties	Requirements	81.5 kJ/in	30.9 kJ/in
Voltage	24	26	Test Reference #		PE8120	PE8119
Current (amps) WFS (ipm)	220 245	260 360				
Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	4 3/4" 8 4 300+/-25 500+/-50 3G	14 3/4" 15 6 RT 200+/-25 1G	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	79,600 69,300 30 78	93,100 86,500 23 113

Test Settings	High Heat Input	Low Heat Input	Lot-# J00119	AWS D1.8	High Heat Input	Low Heat Input
	78.3 kJ/in	29 kJ/in	Mechanical Properties	Requirements	78.3 kJ/in	29 kJ/in
Voltage	24	26	Test Reference #		PE7602	PE7601
Current (amps)	216	260				
WFS (ipm)	255	360				
Travel Speed (ipm)	4	14	Tensile Strength (psi)	70.000	75.800	88,300
Stick Out	5/8"	5/8"	Yield Strength (psi)	58.000	65.900	81,700
# of passes	7	18	Elongation (%)	22	31	25
# of layers	4	7	Average Charpy V-notch		01	20
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	103	111
Interpass Temp. °F	500+/-50	200+/-25	+70 °F		100	
Weld Position	3G	1G				
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Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M										
Condition	Lot -#	Test Reference #	Average (ml/100g)							
As Received	J00119	HB7440	8 (ml/100g)							
7 Day Exposure	J00119	HB4739	7 (ml/100g)							

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James Owens, Quality Assurance Specialist



Diameter: .052"

Shielding Gas: M21-ArC-25 **Current/Polarity:** DCEP

Classification: E71T-1M; E71T-9M H8 Specification: AWS A5.20/A5.20M:2005

Test Completed: 6/14/2024

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot-# J01257	AWS D1.8	High Heat Input	Low Heat Input
	81.4 kJ/in	29.8 kJ/in	Mechanical Properties	Requirements	81.4kJ/in	29.8 kJ/in
Voltage	24.5	27	Test Reference #		PE8122	PE8665
Current (amps)	225	250				
WFS (ipm)	240	350				
Travel Speed (ipm)	4	13.6	Tensile Strength (psi)	70,000	88,700	94,500
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	76,200	87,900
# of passes	8	17	Elongation (%)	22	30	23
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @			
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F	40	107	116
Weld Position	3G	1G				
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Test Settings	High Heat Input	Low Heat Input	Lot-# J01328	AWS D1.8	High Heat Input	Low Heat Input
	81.0 kJ/in	29.2 kJ/in	Mechanical Properties	Requirements	81.0 kJ/in	29.2 kJ/in
Voltage	24.5	26	Test Reference #		PE8107	PE8106
Current (amps)	225	260				
WFS (ipm)	240	360				
Travel Speed (ipm)	4	15	Tensile Strength (psi)	70,000	89,300	104,000
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	78,200	97,500
# of passes	8	17	Elongation (%)	22	27	23
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @			
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F	40	114	79
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input		Lot-# J00119	AWS D1.8	High Heat Input	Low Heat Input
	81.6 kJ/in	29.4 kJ/in		Mechanical Properties	Requirements	81.6 kJ/in	29.4 kJ/in
Voltage	24.5	26.1	1	Test Reference#		PE7599	PE7600
Current (amps)	222	259.1					
WFS (ipm)	255	360					
Travel Speed (ipm)	4	13.8		Tensile Strength (psi)	70,000	81,400	93,200
Stick Out `	5/8"	3/4"		Yield Strength (psi)	58,000	70,500	86,800
# of passes	7	18		Elongation (%)	22	28	23
# of layers	4	7		Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT		Impact Properties ft•lbs @			
Interpass Temp. ⁰F	500+/-50	200+/-25		+70 °F	40	110	65
Weld Position	3G	1G					

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M									
Condition Lot - # Test Reference # Average (ml/100g)									
As Received	J00119	HB7462	4 (ml/100g)						
7 Day Exposure	J00119	HB7441	6 (ml/100g)						

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James Owens, Quality Assurance Specialist



Diameter: 1/16"

Shielding Gas: C1 (100% CO2)

Current/Polarity: DCEP

Classification: E71T-1 C/M, E71T-9 C/M H8 Specification: AWS A5.20/A5.20M:2005

Test Completed: 9/26/2022

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot-# C604351904291	AWS D1.8	High Heat Input	Low Heat Input
	78.8 kJ/in	31.0 kJ/in	Mechanical Properties	Requirements	78.8 kJ/in	31.0 kJ/in
Voltage	24	26	Test Reference #		PD7581	PD7733
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	230 170 4.2 3/4" 8 4 300+/-25 500+/-50 3G	282 240 13.9 3/4" 17 7 RT 200+/-25 1G	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	83,000 73,000 26 144	86,000 82,000 25 111

Test Settings	High Heat Input	Low Heat Input	Lot	-# Z601232203162	AWS D1.8	High Heat Input	Low Heat Input
	82.5 kJ/in	31.0 kJ/in		Mechanical Properties	Requirements	82.5 kJ/in	31.0 kJ/in
	28	27		Test Reference #		PD2034	PD2033
Voltage Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	275 235 4.0 3/4" 7 4 300+/-25 500+/-50 3G	279 240 15 3/4" 21 8 RT 200+/-25		Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch mpact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	72,600 63,400 31 197	83,100 76,200 25 134

Test Settings	High Heat Input	Low Heat Input	Lot- # F04119	AWS D1.8	High Heat Input	Low Heat Input
	79.7 kJ/in	31.2 kJ/in	Mechanical Properties	Requirements	79.7 kJ/in	31.2 kJ/in
Voltage	24	27	Test Reference #		PE4413	PE4416
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. °F Interpass Temp. °F Weld Position	220 170 4.02 5/8" 7 4 300+/-25 500+/-50 3G	290 245 14.8 3/4" 17 7 RT 200+/-25 1G	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	71,400 62,700 31 116	82,700 77,000 25 115

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M											
Condition Lot - # Test Reference # Average (ml/100g)											
As Received	C600301902292	HB6002	6.7 (ml/100g)								
7 Day Exposure	7 Day Exposure C600301902292 HB6100 7.9 (ml/100g)										

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Diameter: 1/16"

Shielding Gas: M21-ArC-25 **Current/Polarity:** DCEP

Classification: E71T-1M H8, E71T-9M H8 **Specification:** AWS A5.20/A5.20M:2005

Test Completed: 9/27/2022

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot- # C604351904291	AWS D1.8	High Heat Input	Low Heat Input
	78.8 kJ/in	31.0 kJ/in	Mechanical Properties	Requirements	78.8 kJ/in	31.0 kJ/in
Voltage	24	25.5	Test Reference #		PD7581	PD7733
Current (amps)	230	282				
WFS (ipm)	170	240				
Travel Speed (ipm)	4.2	13.9	Tensile Strength (psi)	70,000	83,000	90,000
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	73,000	82,000
# of passes	8	17	Elongation (%)	22	26	24
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	144	126
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # Z601232203162	AWS D1.8	High Heat Input	Low Heat Input
	79.2 kJ/in	31.0 kJ/in	Mechanical Properties	Requirements	79.2 kJ/in	31.0 kJ/in
Voltage	24	25.5	Test Reference #		PD1878	PD1876
Current (amps)	220	282				
WFS (ipm)	170	230				
Travel Speed (ipm)	4.0	13.9	Tensile Strength (psi)	70,000	84,000	94,000
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	72,000	84,000
# of passes	8	19	Elongation (%)	22	30	24
# of layers	4	8	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	128	126
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # F04119	AWS D1.8	High Heat Input	Low Heat Input
	79.4 kJ/in	30.6 kJ/in	Mechanical Properties	Requirements	79.4 kJ/in	30.6 kJ/in
Voltage	24.5	25.6	Test Reference #		PE4417	PE4418
Current (amps)	225	289				
WFS (ipm)	170	245				
Travel Speed (ipm)	4.03	14.3	Tensile Strength (psi)	70,000	78,100	89,000
Stick Out	3/4"	3/4"	Yield Strength (psi)	58,000	66,900	84,100
# of passes	8	17	Elongation (%)	22	30	25
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	122	134
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	3G	1G				

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M											
Condition Lot - # Test Reference # Average (ml/100g)											
As Received	F04119	HB6003	7.0 (ml/100g)								
7 Day Exposure	7 Day Exposure F04119 HB6025 10.3 (ml/100g)										

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