Product: FabCO Excel-Arc 71
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 Requirements	High Heat Input	Low Heat Input
	84.4 kJ/in	26.7 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	116	106
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # B611752703191	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.4 kJ/in	27.9 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	122	109
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # J60547	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.4 kJ/in	30.3 kJ/in	Mechanical Properties		80.4 kJ/in	30.3 kJ/in
Voltage	25	26	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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	120	118
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
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	J60547	HB7738	9 (ml/100g)

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James Owens, Quality Assurance Specialist

Product: FabCO Excel-Arc 71
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

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 Requirements	High Heat Input	Low Heat Input
	82.3 kJ/in	26.8 kJ/in	Mechanical Properties		82.3 kJ/in	26.8 kJ/in
Voltage	25	25	Test Reference #		PE2546	PE2555
Current (amps)	225	250				
WFS (ipm)	380	450				
Travel Speed (ipm)	4.1	14	Tensile Strength (psi)	70,000	82,500	98,900
Stick Out	3/4“	3/4“	Yield Strength (psi)	58,000	72,000	95,500
# of passes	8	20	Elongation (%)	22	27	22
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	127	107
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # B614611305181	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.4 kJ/in	28.4 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	120	81
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # J60547	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.6 kJ/in	29.2 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	114	98
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
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

Product: FabCO Excel-Arc 71
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

This is to certify that the product named is of the same classification, manufacturing process, and material requirements as the material, which was used for the test which was concluded on the date shown, the results of which are shown below. All test 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 System Program 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- # J01328	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.9 kJ/in	29.7 kJ/in	Mechanical Properties		80.9 kJ/in	29.7 kJ/in
Voltage	24	26	Test Reference #		PE8109	PE8108
Current (amps)	220	260				
WFS (ipm)	245	360				
Travel Speed (ipm)	4	14.5	Tensile Strength (psi)	70,000	81,500	92,800
Stick Out	3/4”	3/4”	Yield Strength (psi)	58,000	71,100	85,900
# of passes	8	18	Elongation (%)	22	31	26
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	93	120
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

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

Test Settings	High Heat Input	Low Heat Input	Lot- # J00119	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.3 kJ/in	29 kJ/in	Mechanical Properties		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			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	103	111
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
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	HB7440	8 (ml/100g)
7 Day Exposure	J00119	HB4739	7 (ml/100g)

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James Owens, Quality Assurance Specialist

Product: FabCO Excel-Arc 71
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 Requirements	High Heat Input	Low Heat Input
	81.4 kJ/in	29.8 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @			
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF	40	107	116
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # J01328	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	81.0 kJ/in	29.2 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @			
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF	40	114	79
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # J00119	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	81.6 kJ/in	29.4 kJ/in	Mechanical Properties		81.6 kJ/in	29.4 kJ/in
Voltage	24.5	26.1	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. ºF	300+/-25	RT	Impact Properties ft•lbs @			
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF	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

Product: FabCO Excel-Arc 71
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: 7/25/2025

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

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Test Settings	High Heat Input	Low Heat Input	Lot- # C600301902292	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	84.3 kJ/in	29.2 kJ/in	Mechanical Properties		84.3 kJ/in	29.2 kJ/in
Voltage	25	25.5	Test Reference #		PD7454	PD7512
Current (amps)	225	279				
WFS (ipm)	170	240				
Travel Speed (ipm)	4.0	15.5	Tensile Strength (psi)	70,000	76,300	86,100
Stick Out	3/4”	3/4”	Yield Strength (psi)	58,000	66,800	81,600
# of passes	7	20	Elongation (%)	22	30	25
# of layers	4	8	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @ +70 ºF	40	167	111
Interpass Temp. ºF	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # K60348	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.5 kJ/in	31.6 kJ/in	Mechanical Properties		82.5 kJ/in	31.6 kJ/in
Voltage	25	27	Test Reference #		PF0824	PF0825
Current (amps)	225	279				
WFS (ipm)	170	240				
Travel Speed (ipm)	4.0	14.3	Tensile Strength (psi)	70,000	74,700	83,500
Stick Out	3/4”	3/4”	Yield Strength (psi)	58,000	64,300	76,500
# of passes	8	17	Elongation (%)	22	30	27
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @ +70 ºF	40	229	130
Interpass Temp. ºF	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # F04119	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.7 kJ/in	31.2 kJ/in	Mechanical Properties		79.7 kJ/in	31.2 kJ/in
Voltage	24	27	Test Reference #		PE4413	PE4416
Current (amps)	220	290				
WFS (ipm)	170	245				
Travel Speed (ipm)	4.02	14.8	Tensile Strength (psi)	70,000	71,400	82,700
Stick Out	5/8“	3/4“	Yield Strength (psi)	58,000	62,700	77,000
# of passes	7	17	Elongation (%)	22	31	25
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @ +70 ºF	40	116	115
Interpass Temp. ºF	500+/-50	200+/-25				
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	K60348	HB8220	4 (ml/100g)
7 Day Exposure	K60348	HB8273	5 (ml/100g)

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James Owens, Compliance Specialist

Product: FabCO Excel-Arc 71
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: 7/07/2025

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 Requirements	High Heat Input	Low Heat Input
	78.8 kJ/in	31.0 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	144	126
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # K60348	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.9 kJ/in	30.0 kJ/in	Mechanical Properties		78.9 kJ/in	30.0 kJ/in
Voltage	24	25.5	Test Reference #		PF0826	PF0827
Current (amps)	220	282				
WFS (ipm)	170	230				
Travel Speed (ipm)	4.0	13.9	Tensile Strength (psi)	70,000	79,300	93,700
Stick Out	3/4”	3/4”	Yield Strength (psi)	58,000	68,600	86,600
# of passes	10	18	Elongation (%)	22	29	24
# of layers	5	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	189	112
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # F04119	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.4 kJ/in	30.6 kJ/in	Mechanical Properties		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. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	122	134
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
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	K60250	HB8219	4 (ml/100g)
7 Day Exposure	K60250	HB8272	9 (ml/100g)

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James Owens, Compliance Specialist