



Product: FabCO Triple 7
Diameter: .045"
Shielding Gas: M21-ArC-25
Current/Polarity: DCEP
Classification: E71T-1 H8, E71T-9 H8
Specification: AWS A5.20/A5.20M:2005
Test Completed: 10/14/2020

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- # C608862501171	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.5 kJ/in	27.6 kJ/in			82.5 kJ/in	27.6 kJ/in
			Mechanical Properties			
			Test Reference #		PD8880	PD8879
Voltage	25	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	78,200 67,100 28 130	90,500 86,000 23 94
Current (amps)	220	290				
WFS (ipm)	350	490				
Travel Speed (ipm)	4	17				
Stick Out	5/8"	5/8"				
# of passes	7	19				
# of layers	4	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # C623262104213	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.7 kJ/in	29.3 kJ/in			78.7 kJ/in	29.3 kJ/in
			Mechanical Properties			
			Test Reference #		PD9714	PD9730
Voltage	25	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	82,100 72,100 28 150	99,000 84,700 22 120
Current (amps)	220	290				
WFS (ipm)	375	600				
Travel Speed (ipm)	4.21	16.11				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61355	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.8 kJ/in	29.2 kJ/in			78.8 kJ/in	29.2 kJ/in
			Mechanical Properties			
			Test Reference #		PE1365	PE1363
Voltage	24.5	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	85,000 72,400 26 137	99,400 97,000 24 123
Current (amps)	225	290				
WFS (ipm)	375	600				
Travel Speed (ipm)	4.20	16.1				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	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	C623262104213	HB4242	5.6 (ml/100g)
7 Day Exposure	C623262104213	HB4243	7.0 (ml/100g)

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David A. Thomas, Quality Assurance Representative



Product: FabCO Triple 7
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: 10/09/2020

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

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Test Settings	High Heat Input	Low Heat Input	Lot- # C608862501171	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.9 kJ/in	28.2 kJ/in	Mechanical Properties		82.9 kJ/in	28.2 kJ/in
			Test Reference #		PD8878	PD8877
Voltage	25	27.5	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	71,500 61,200 29 169	83,100 77,900 25 92
Current (amps)	220	290				
WFS (ipm)	350	490				
Travel Speed (ipm)	3.99	17				
Stick Out	5/8"	5/8"				
# of passes	7	19				
# of layers	4	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # C623262104213	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.3 kJ/in	29.0 kJ/in	Mechanical Properties		82.3 kJ/in	29.0 kJ/in
			Test Reference #		PD9713	PD9729
Voltage	25	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	73,800 63,200 31 210	92,500 87,600 23 88
Current (amps)	220	290				
WFS (ipm)	375	600				
Travel Speed (ipm)	4.04	16.25				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61355	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.3 kJ/in	29.9 kJ/in	Mechanical Properties		80.3 kJ/in	29.9 kJ/in
			Test Reference #		PE1364	PE1362
Voltage	25	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	72,100 62,800 29 139	90,000 84,700 22 104
Current (amps)	225	290				
WFS (ipm)	375	600				
Travel Speed (ipm)	4.22	15.7				
Stick Out	5/8"	3/4"				
# of passes	6	14				
# of layers	4	5				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	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	C623262104213	HB4240	4.0 (ml/100g)
7 Day Exposure	C623262104213	HB4241	5.4 (ml/100g)

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David A. Thomas, Quality Assurance Representative



Product: FabCO Triple 7
Diameter: .052"
Shielding Gas: M21-ArC-25
Current/Polarity: DCEP
Classification: E71T-1 H8, E71T-9 H8
Specification: AWS A5.20/A5.20M:2005
Test Completed: 10/05/2020

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

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Test Settings	High Heat Input	Low Heat Input	Lot- # C619262804161	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.4 kJ/in	28.8 kJ/in	Mechanical Properties		78.4 kJ/in	28.8 kJ/in
			Test Reference #		PD9742	PD9744
Voltage	24	25	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	83,600 70,100 28 117	102,000 97,800 22 109
Current (amps)	230	275				
WFS (ipm)	270	368				
Travel Speed (ipm)	4.25	14.42				
Stick Out	5/8"	3/4"				
# of passes	8	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61355	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.7 kJ/in	29.0 kJ/in	Mechanical Properties		82.7 kJ/in	29.0 kJ/in
			Test Reference #		PE1319	PE1318
Voltage	24	25	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	83,100 69,400 29 122	100,000 96,300 22 135
Current (amps)	230	275				
WFS (ipm)	270	367				
Travel Speed (ipm)	4.05	14.24				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61354	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.7 kJ/in	30.0 kJ/in	Mechanical Properties		79.7 kJ/in	30.0 kJ/in
			Test Reference #		PE1350	PE1348
Voltage	24.5	25	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	80,800 68,400 30 130	99,000 93,600 23 117
Current (amps)	225	275				
WFS (ipm)	255	350				
Travel Speed (ipm)	4.2	13.75				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	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	C619262804161	HB4251	6.6 (ml/100g)
7 Day Exposure	C619262804161	HB4252	9.0 (ml/100g)

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David A. Thomas, Quality Assurance Representative



Product: FabCO Triple 7
Diameter: .052"
Shielding Gas: C1 (100% CO2)
Current/Polarity: DCEP
Classification: E71T-1 H8, E71T-9 H8
Specification: AWS A5.20/A5.20M:2005
Test Completed: 10/05/2020

Certificate of Conformance

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Test Settings	High Heat Input	Low Heat Input	Lot- # C619262804161	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.0 kJ/in	29.9 kJ/in	Mechanical Properties		79.0 kJ/in	29.9 kJ/in
			Test Reference #		PD9741	PD9743
Voltage	25.5	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	76,900 66,500 29 118	91,900 85,900 25 102
Current (amps)	230	275				
WFS (ipm)	270	368				
Travel Speed (ipm)	4.47	14.41				
Stick Out	5/8"	3/4"				
# of passes	8	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61355	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	81.7 kJ/in	29.9 kJ/in	Mechanical Properties		81.7 kJ/in	29.9 kJ/in
			Test Reference #		PE1321	PE1320
Voltage	25.5	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	74,900 65,600 32 112	87,700 82,500 25 128
Current (amps)	230	275				
WFS (ipm)	270	350				
Travel Speed (ipm)	4.32	14.35				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61354	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.2 kJ/in	29.9 kJ/in	Mechanical Properties		80.2 kJ/in	29.9 kJ/in
			Test Reference #		PE1349	PE1347
Voltage	25.5	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	74,900 63,300 29 174	86,300 80,400 25 124
Current (amps)	225	275				
WFS (ipm)	260	350				
Travel Speed (ipm)	4.3	14.35				
Stick Out	5/8"	3/4"				
# of passes	7	16				
# of layers	4	6				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1/G				

**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	C619262804161	HB4249	5.3 (ml/100g)
7 Day Exposure	C619262804161	HB4250	7.7 (ml/100g)

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David A. Thomas, Quality Assurance Representative



Product: FabCO Triple 7
Diameter: 1/16"
Shielding Gas: M21-ArC-25
Current/Polarity: DCEP
Classification: E71T-1 H8, E71T-9 H8
Specification: AWS A5.20/A5.20M:2005
Test Completed: 09/23/2020

Certificate of Conformance

For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot- # C61972201291	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.0 kJ/in	29.0 kJ/in			79.0 kJ/in	29.0 kJ/in
			Mechanical Properties			
			Test Reference #		PD8884	PD8883
Voltage	24	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	81,700 70,800 29 128	87,300 82,500 25 131
Current (amps)	225	260				
WFS (ipm)	185	205				
Travel Speed (ipm)	4	14				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61280	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.8 kJ/in	29.8 kJ/in			80.8 kJ/in	29.8 kJ/in
			Mechanical Properties			
			Test Reference #		PE1247	PE1246
Voltage	24.5	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	77,500 67,300 32 136	86,900 82,900 29 158
Current (amps)	225	260				
WFS (ipm)	185	215				
Travel Speed (ipm)	4.10	13.64				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61354	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	83.0 kJ/in	29.2 kJ/in			83.0 kJ/in	29.2 kJ/in
			Mechanical Properties			
			Test Reference #		PE1285	PE1284
Voltage	24	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	81,300 67,200 28 121	94,000 89,500 25 143
Current (amps)	225	260				
WFS (ipm)	185	218				
Travel Speed (ipm)	3.91	13.93				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	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	C61972201291	HB3901	6.4 (ml/100g)
7 Day Exposure	C61972201291	HB3902	7.0 (ml/100g)

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David A. Thomas, Quality Assurance Representative



Product: FabCO Triple 7
Diameter: 1/16"
Shielding Gas: C1 (100% CO2)
Current/Polarity: DCEP
Classification: E71T-1 H8, E71T-9 H8
Specification: AWS A5.20/A5.20M:2005
Test Completed: 09/24/2020

Certificate of Conformance

For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot- # C619272201291	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.5 kJ/in	29.0 kJ/in	Mechanical Properties		82.5 kJ/in	29.0 kJ/in
			Test Reference #		PD8882	PD8881
Voltage	25	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	75,100 64,100 29 138	79,100 72,000 27 45
Current (amps)	225	260				
WFS (ipm)	185	205				
Travel Speed (ipm)	4	14				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61280	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.4 kJ/in	28.7 kJ/in	Mechanical Properties		82.4 kJ/in	28.7 kJ/in
			Test Reference #		PE1257	PE1256
Voltage	25	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	72,900 63,000 32 96	82,700 77,900 26 87
Current (amps)	220	260				
WFS (ipm)	185	215				
Travel Speed (ipm)	4.01	14.18				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # D61354	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	81.7 kJ/in	29.0 kJ/in	Mechanical Properties		81.7 kJ/in	29.0 kJ/in
			Test Reference #		PE1287	PE1286
Voltage	25	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	77,700 67,300 28 74	85,800 81,100 27 145
Current (amps)	225	260				
WFS (ipm)	185	215				
Travel Speed (ipm)	4.13	14.04				
Stick Out	3/4"	3/4"				
# of passes	6	19				
# of layers	3	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	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	C619272201291	HB3899	6.6 (ml/100g)
7 Day Exposure	C619272201291	HB3900	9.3 (ml/100g)

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