Product: FabCO 803
Diameter: 1/16”
Shielding Gas: C1 (100% CO2)
Current/Polarity: DCEP
Classification: E81T1-Ni2 CJ H4
Specification: AWS A5.29/A5.29M:2021
Test Completed: 1/21/2022

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- # F05886	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	72.1 kJ/in	29.1 kJ/in	Mechanical Properties		72.1 kJ/in	29.1 kJ/in
Voltage	23.5	27	Test Reference #		PE3470	PE3466
Current (amps)	220	275				
WFS (ipm)	160	235				
Travel Speed (ipm)	4.15	15.6	Tensile Strength (psi)	80,000	85,000	98,000
Stick Out	3/4”	3/4”	Yield Strength (psi)	68,000	71,000	93,000
# of passes	8	19	Elongation (%)	19	26	23
# of layers	4	8	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	117	110
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # B019091227421	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	66.1 kJ/in	29.5 kJ/in	Mechanical Properties		66.1 kJ/in	29.5 kJ/in
Voltage	23.5	27	Test Reference #		PD7119	PD7113
Current (amps)	225	275				
WFS (ipm)	180	235				
Travel Speed (ipm)	4.8	15.1	Tensile Strength (psi)	80,000	89,000	96,000
Stick Out	1/2"-3/4“	1/2"-3/4”	Yield Strength (psi)	68,000	78,000	91,000
# of passes	10	20	Elongation (%)	19	24	23
# of layers	5	8	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	125	100
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # X04101120602	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	63.4 kJ/in	30.1 kJ/in	Mechanical Properties		63.4 kJ/in	30.1 kJ/in
Voltage	23.5	27	Test Reference #		PD0221	PD0222
Current (amps)	225	275				
WFS (ipm)	160	235				
Travel Speed (ipm)	5.0	14.8	Tensile Strength (psi)	80,000	80,000	87,000
Stick Out	1/2"-3/4“	1/2"-3/4“	Yield Strength (psi)	68,000	71,000	82,000
# of passes	8	19	Elongation (%)	19	31	27
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ºF	300+/-25	RT	Impact Properties ft•lbs @	40	170	129
Interpass Temp. ºF	500+/-50	200+/-25	+70 ºF			
Weld Position	3G	1G				

Diffusible Hydrogen - Tested in accordance with AWS A5.29/A5.29M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M

Condition	Lot - #	Test Reference #	Average (ml/100g)
As Received	F05886	HB5375	2.9 (ml/100g)
7 Day Exposure	F05886	HB5395	5.0 (ml/100g)

David A. Thomas, Quality Assurance Specialist