



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

ORC
Central Rating Office
issuing certificates for
CANADA



Certificate

Number **011/16**
Issued On **2.4.2016**.
ORC Ref **CAN00062270**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**.

Crew Weight

Declared **1,308kg**
Default* **1,308kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	470.1	1.2763
Non Spin OSN	461.2	1.3009
N/S Perf. Line	-29.0	0.752

Sails Limitations

Headsails **8** Spinnakers **4**

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 305.01**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **16.247**

Stability

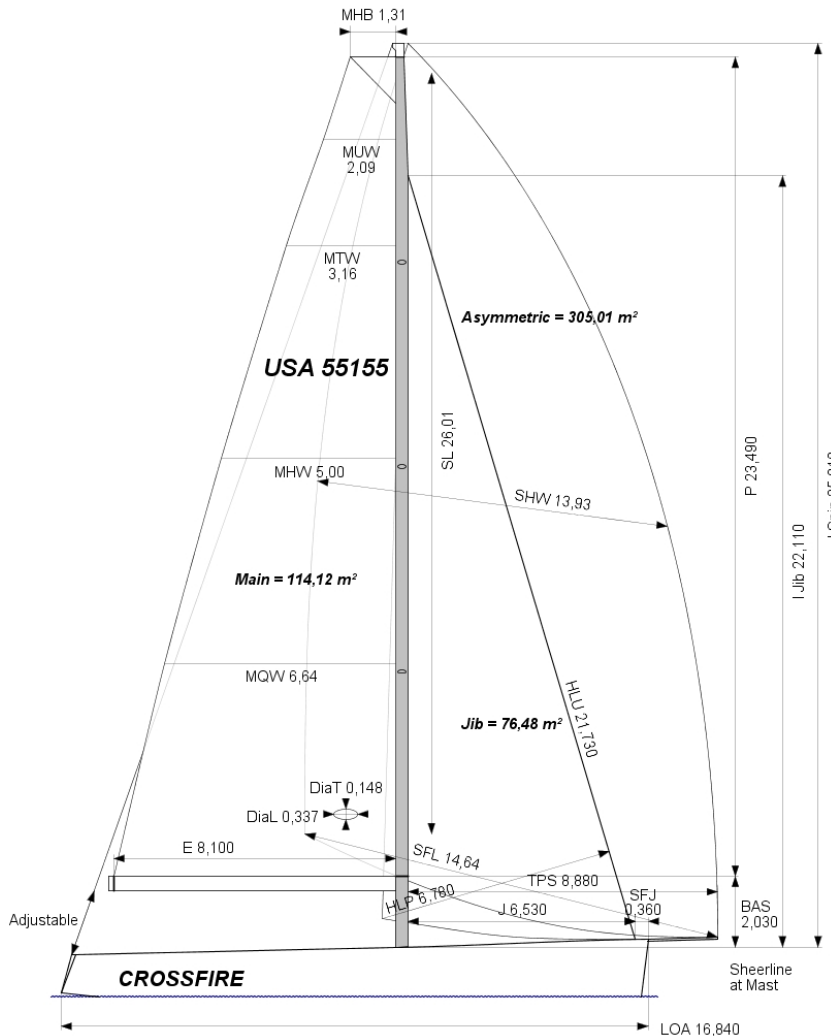
LPS (Estimated): **148.3°**
Stability Index: **150.4**
OSR Category: **N/A**

Owner

Lou Bianco
8413 55th Ave. South
98118 Seattle
USA

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name CrossFire Sail Nr USA 55155	438.5	Data File USA55155.dxt LOA 16.840m Offset File RIMA2A.OFF MB 4.520m Displacement 9,621kg Draft 3.954m
CLASS Class R/P 55 Designer Reichel/Pugh Builder McConaghy Series 05.2006 Age Date 01.2007 Age Allowance 0.325%	Performance Fwd Accom. No Fiber Rigging Yes Crew Arm Ex 0.00	Dynamic All. 0.002% Construction Carbon Aramid Core No Carbon Rudder Yes Light Stanchions Yes
COMMENTS	IMSL 16.033m VCGD -1.159m Sink 34.67kg/mm RL 16.459m VCGM -1.136m WS 46.27m2 LSM0 15.681m Displacement/Length ratio 2.4952	Water Ballast 0 Trim Tab No
PROPELLER Installation Strut PRD 0.530 Type Folding 2 blades PBW 0.120 PIPA 0.0038	CENTERBOARD N/A	
SCORING OPTIONS		
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	427.0	485.0
Time On Time	1.4051	1.3918
Performance Line	PLT 0.891 PLD 6.0	PLT 1.248 PLD 234.7
Triple Number	Low 1.3395 Medium 1.7307 High 2.0234	Low 1.0239 Medium 1.3754 High 1.6225



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ORC Club Certificate Appendix

BOAT

Name **CrossFire** Certificate Number **011/16**
 Sail Nr **USA 55155** Issued On **2.4.2016.**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	750.1	606.6	549.1	520.5	500.7	488.0	479.0
52°	483.1	401.5	379.2	367.8	359.2	348.2	336.4
60°	448.1	384.5	364.8	351.2	341.1	330.4	316.2
75°	418.3	370.6	341.7	324.4	313.2	305.2	285.5
90°	417.0	370.7	335.4	307.0	291.4	280.6	266.4
110°	441.2	374.3	349.5	324.9	299.7	268.0	234.2
120°	458.9	380.3	344.3	322.3	299.9	274.0	238.3
135°	516.9	408.1	366.2	328.4	291.7	269.4	235.1
150°	622.0	486.8	414.4	369.5	343.1	312.1	254.0
Run VMG	718.2	562.1	478.5	431.6	396.2	360.4	293.3

Selected Courses

Windward / Leeward	734.1	584.3	513.8	476.1	448.5	424.2	386.2
Circular Random	607.5	489.7	425.9	387.3	361.1	341.5	311.9
Ocean for PCS	753.8	579.2	480.5	418.6	375.9	343.5	294.7
Non Spinnaker	660.6	528.7	456.0	411.5	381.5	359.6	328.7

Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.1°	42.4°	39.5°	37.9°	36.4°	35.6°	35.3°
Beat VMG	4.80	5.94	6.56	6.92	7.19	7.38	7.51
52°	7.45	8.97	9.49	9.79	10.02	10.34	10.70
60°	8.03	9.36	9.87	10.25	10.56	10.90	11.39
75°	8.61	9.71	10.53	11.10	11.49	11.80	12.61
90°	8.63	9.71	10.73	11.73	12.35	12.83	13.51
110°	8.16	9.62	10.30	11.08	12.01	13.43	15.37
120°	7.85	9.47	10.46	11.17	12.01	13.14	15.11
135°	6.96	8.82	9.83	10.96	12.34	13.36	15.31
150°	5.79	7.40	8.69	9.74	10.49	11.53	14.17
Run VMG	5.01	6.40	7.52	8.34	9.09	9.99	12.27
Gybe Angles	140.5°	140.9°	147.0°	152.6°	148.9°	141.0°	141.8°