

BOAT Name RIVA Sail Nr USA 11211	GPH 559.2	HULL Length Overall 12.190m Maximum Beam 3.746m Displacement 6,095kg Draft 2.365m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.180% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class J 121 Designer JOHNSTONE Builder CCF Series 09/2017, CIN 11 Age 01/2019 Age Allowance 0.065% Offset File J121a.OFF - 26/03/2019 13:42:06 Measurement by - 05/04/2019		IMSL 11.796m VCGD -0.112m Sink 23.89kg/mm RL 11.063m VCGM -0.099m WS 30.89m² LSM0 11.476m Displacement/Length ratio 4.0328



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	541.2			607.5		
Time on Time	1.1087			1.1111		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	650.0	493.2	431.5	842.8	608.9	524.6
Time on Time	1.0385	1.3685	1.5644	0.8009	1.1085	1.2867

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	981.3	797.1	690.2	634.9	605.6	593.7	583.0
52°	638.5	530.4	474.6	454.6	441.8	435.6	430.2
60°	601.3	505.2	462.2	443.6	431.1	422.0	414.5
75°	573.6	488.1	453.4	432.9	416.2	403.1	386.3
90°	576.6	476.4	443.8	428.8	411.7	392.3	365.4
110°	564.5	468.3	432.1	407.5	385.4	371.1	346.7
120°	577.7	475.2	436.0	405.0	377.6	356.0	324.0
135°	647.6	516.0	455.7	425.3	394.4	363.8	305.1
150°	769.1	610.2	512.8	459.2	435.3	413.4	354.2
Run VMG	888.1	704.6	592.2	530.2	502.1	473.6	409.0

Certificate
Number **US6396**
ORC Ref **US00000268**
Issued On **13/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **838kg**
Maximum **838kg**
Minimum* **629kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **605.2 0.9914**
Non Spin OSN **585.6 1.0246**

Selected Courses							
Windward / Leeward	934.7	750.9	641.2	582.5	553.9	533.6	496.0
Circular Random	778.9	625.2	542.1	493.3	462.3	440.6	409.0
Coastal / Long Distance	930.1	704.0	578.8	509.0	472.5	442.5	392.3
Non Spinnaker	862.3	684.2	585.6	526.2	488.3	462.7	429.8

Sails Limitations
Headsails **6** | Spinnakers **4**

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	43.1°	41.3°	40.5°	38.3°	36.8°	35.8°	35.3°
Beat VMG	3.67	4.52	5.22	5.67	5.94	6.06	6.17
52°	5.64	6.79	7.59	7.92	8.15	8.27	8.37
60°	5.99	7.13	7.79	8.12	8.35	8.53	8.69
75°	6.28	7.38	7.94	8.32	8.65	8.93	9.32
90°	6.24	7.56	8.11	8.39	8.74	9.18	9.85
110°	6.38	7.69	8.33	8.83	9.34	9.70	10.38
120°	6.23	7.58	8.26	8.89	9.53	10.11	11.11
135°	5.56	6.98	7.90	8.47	9.13	9.90	11.80
150°	4.68	5.90	7.02	7.84	8.27	8.71	10.16
Run VMG	4.05	5.11	6.08	6.79	7.17	7.60	8.80
Gybe Angles	143.0°	146.0°	147.5°	151.0°	150.8°	175.0°	143.4°

Class Division Length
CDL = **11.430**

Storm Sails Areas
Heavy Weather Jib **33.38**
Storm Jib (JL=10.23) **12.37**
Storm Trysail **13.49**

Owner

BOAT	
Name RIVA	Sail Nr USA 11211
File US6396	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 05/04/2019				SG 1.0000	
FFM	1.311	FF	1.319	SFFP	1.000
FAM	0.905	FA	0.910	SAFP	12.144
W1	111.6	PD1	761.1	WD	16.425
W2	111.6	PD2	761.1	GSA	1.0
W3	111.6	PD3	761.1	RSA	1.0
W4	111.6	PD4	761.1	PLM	9000.0
LCF from stem on CL / on sheer				6.818 / 7.065	
Maximum beam station from stem				7.924	
RM Measured				189.7kg-m	
RM Default				137.0kg-m	
Limit of positive stability / Stab.Index				112.4° / 114.9	
Freeboard at mast at 4.783				1.146	



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RIG					
Forestay Tension Aft	Spreaders 2				
Inner Stay None Fitted	Runners 0				
Carbon Mast Yes	Jumper Struts None				
Taper Hollows No	Jib Furler Yes				
Fiber Rigging No	Main Furler No				
Lenticular Rigging No	Without Backstay No				
Articulated Bowsprit No					
P 15.243	E 5.054	MDT1 0.115	MW 0.227		
IG 15.694	J 4.668	MDL1 0.236	GO 0.236		
ISP 17.008	SFJ 0.115	MDT2 0.115	BD 0.235		
BAS 1.556	SPL	MDL2 0.168	MWT 0.00		
FSP 0.000	TPS 7.096	TL 0.923	MCG 0.000		

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.440
Type	Folding 3 blades	PBW	0.144
Twin Screw		PIPA	0.0039
ST1	0.060	ST3	0.180
ST2	0.180	ST4	0.110
		ST5	0.240
		EDL	2.260

COMMENTS	

MOVABLE BALLAST			
BLR Index	1.1179	Water Ballast Volume	720
		Water Ballast LCG	8.30
		Water Ballast VCG	0.51
		Water Ballast TCG	1.54

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.450	1.30	2.05	3.28	4.21	46.94	47.88	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	19.87	15.46	17.66	10.40	10.28	152.74		AS · (SFL + 4·SHW) / 6	

HEADSAILS											
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)											
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area Btn	Fly	Meas.Date	Material	Comment
0.08	0.70	1.32	2.56	3.79	4.98	15.45	39.31				FURLING JIB WITH BATTENS

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a	Ancher	0-0	0-00	
Id	Item	Weight Description		

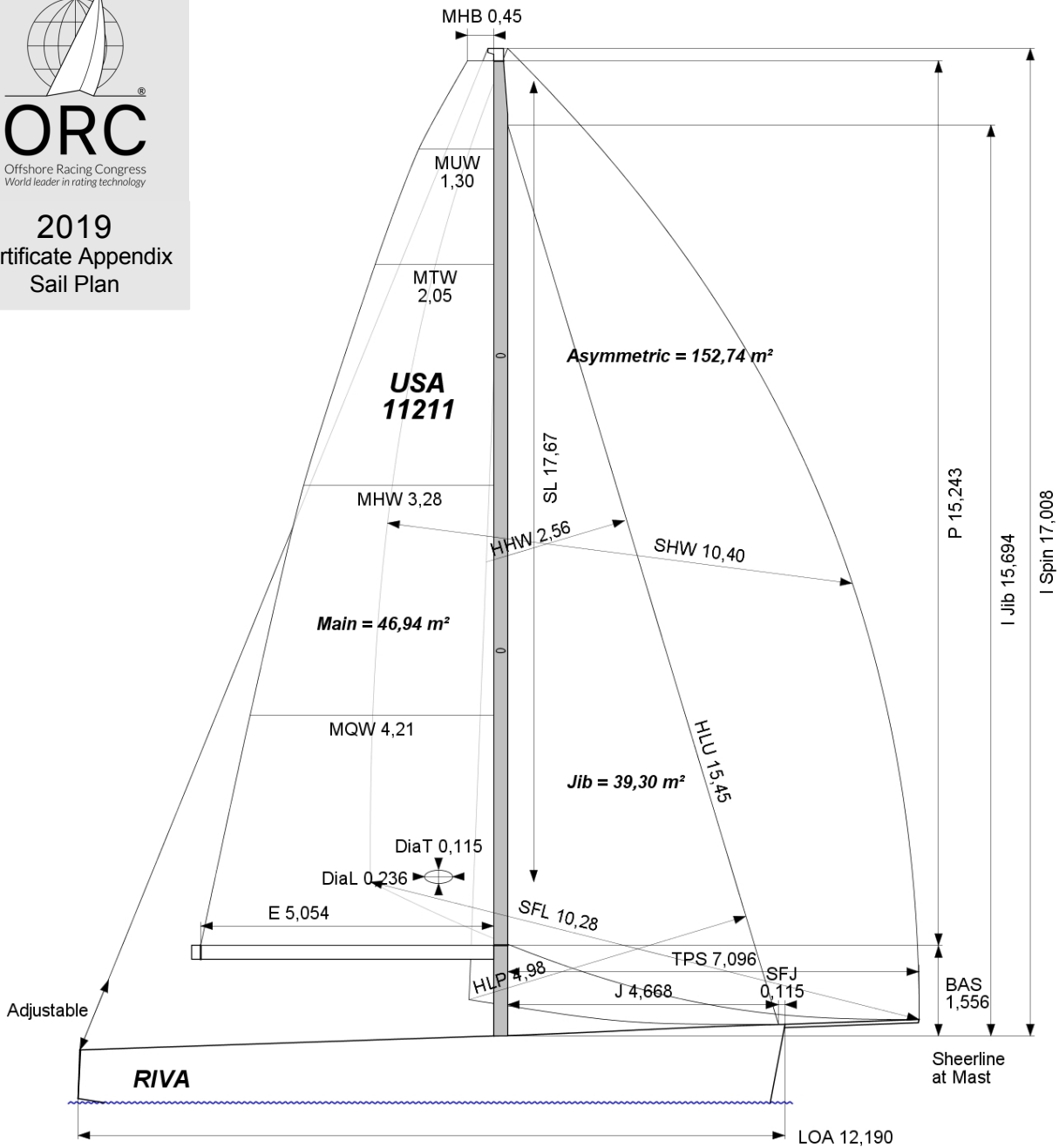
MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
	Tank				0.00	0.00	0-0	
Id	Item	Weight	Distance	VCG Description				
Water Ballast Tanks								
Id	Volume	Distance	VCG	TCG	Description			
1	720	8.30	0.51	1.54				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2375210	0.45	1.30	2.05	3.28	4.21	46.94			KERRY	POE	2019 MAINSAIL					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2375220	0.08	0.70	1.32	2.56	3.79	4.98	15.45	107%	39.31					NORTH	SRI	FURLING JIB WITH
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2375202	19.87	15.46	17.66	10.40	10.28	152.75	asym			KERRY		A2 2019				