



ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6595**
Issued On **03/09/2020**
ORC Ref **03410000PQF**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 840kg
Maximum **840kg**
Minimum* **630kg**
**when applied by the NoR and SI*
Non Manual Pwr **Rig**

Special Scoring

	ToD	ToT
Non Spin GPH	602.8	0.9954
Non Spin OSN	583.9	1.0277

Sails Limitations

Headsails 7 Spinnakers 5

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 154.35**
Flying H/S: **Yes 69.71**
Spin. Pole: **No**

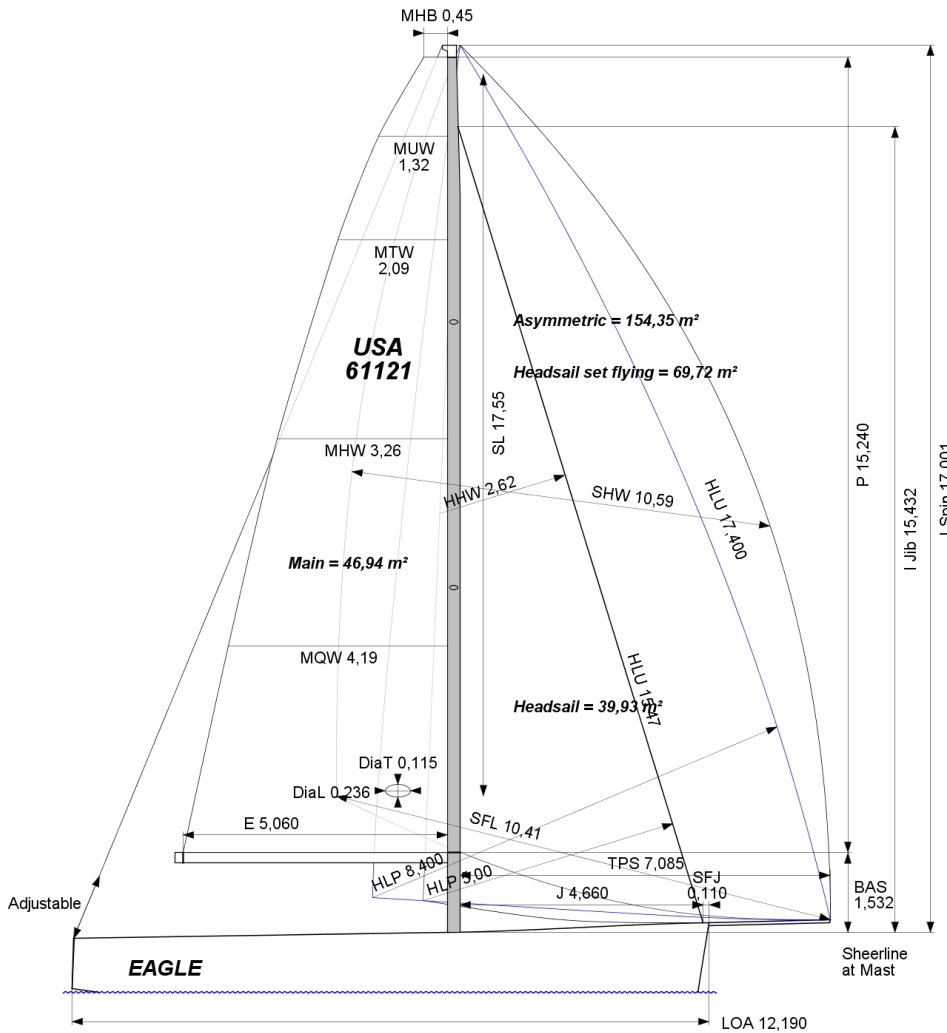
Class Division Length

CDL = 11.723

Stability (Estimated)

Limit Positive Stab.: **113.8°**
Stability Index: **116.6**

Owner



BOAT	GPH	HULL
Name EAGLE Sail Nr USA 61121	544.7	Data File US6595 LOA 12.190m Offset File J121eagle.OFF MB 3.746m Displacement 6,200kg Draft 2.369m
CLASS Class J 121 Designer JOHNSTONE Builder CCF COMPOSITES Series 08/2017, CIN 1 Age Date 08/2017 Age Allowance 0.098%		IMS Division Cruiser/Racer Dynamic All. 0.176% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 11.823m VCGD -0.147m Sink 24.00kg/mm RL 11.634m VCGM -0.139m WS 31.06m² LSM0 11.502m Displacement/Length ratio 4.0745
PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.115 PIPA 0.0036		Water Ballast 720 Trim Tab No BLR Index 1.1394
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	529.6	596.2
Time on Time	1.1329	1.1322
Triple Number	Low Medium High	Low Medium High
Time on Distance	623.1 483.5 426.0	810.4 598.0 522.2
Time on Time	1.0833 1.3962 1.5846	0.8329 1.1287 1.2927

2020

ORC Club Certificate Appendix

BOAT							
Name	EAGLE	Certificate Number	US6595				
Sail Nr	USA 61121	Issued On	03/09/2020				

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	907.7	743.5	660.3	619.1	599.1	587.0	580.5
52°	590.8	493.2	460.1	444.2	435.8	430.5	423.0
60°	554.9	474.2	447.2	432.0	421.6	414.4	405.4
75°	523.0	460.7	435.6	416.8	402.2	392.0	381.4
90°	523.1	460.2	431.3	409.6	391.0	379.1	358.8
110°	554.6	468.0	431.8	407.0	381.5	358.1	322.7
120°	576.6	474.8	435.8	405.1	377.3	355.3	317.1
135°	646.7	515.2	455.2	425.2	394.7	364.4	305.7
150°	767.7	609.6	512.3	458.7	435.2	413.5	355.4
Run VMG	886.5	704.0	591.6	529.6	501.9	473.2	410.4
Selected Courses							
Windward / Leeward	897.1	723.8	625.9	574.3	550.5	530.1	495.4
Circular Random	749.6	605.7	528.7	483.6	454.9	434.5	404.1
Coastal / Long Distance	896.1	679.9	565.7	500.5	466.5	437.5	387.0
Non Spinnaker	857.5	681.1	583.5	524.6	487.0	461.6	428.8

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	43.5°	42.0°	40.1°	37.9°	36.4°	35.6°	36.0°
Beat VMG	3.97	4.84	5.45	5.82	6.01	6.13	6.20
52°	6.09	7.30	7.82	8.10	8.26	8.36	8.51
60°	6.49	7.59	8.05	8.33	8.54	8.69	8.88
75°	6.88	7.81	8.26	8.64	8.95	9.18	9.44
90°	6.88	7.82	8.35	8.79	9.21	9.50	10.03
110°	6.49	7.69	8.34	8.85	9.44	10.05	11.16
120°	6.24	7.58	8.26	8.89	9.54	10.13	11.35
135°	5.57	6.99	7.91	8.47	9.12	9.88	11.78
150°	4.69	5.91	7.03	7.85	8.27	8.71	10.13
Run VMG	4.06	5.11	6.09	6.80	7.17	7.61	8.77
Gybe Angles	143.0°	146.0°	147.5°	151.0°	151.0°	175.0°	143.3°