



ORC

Offshore Racing Congress
World leader in rating technology

2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress

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Invalid for
Racing

World Leader In Rating Technology

Certificate

Number **515901**
Issued On **16/10/2020**
ORC Ref **03510000S3A**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default	487kg
Maximum	325kg
Minimum*	240kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	735.2	0.8161
Non Spin OSN	711.3	0.8435

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **62.41**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

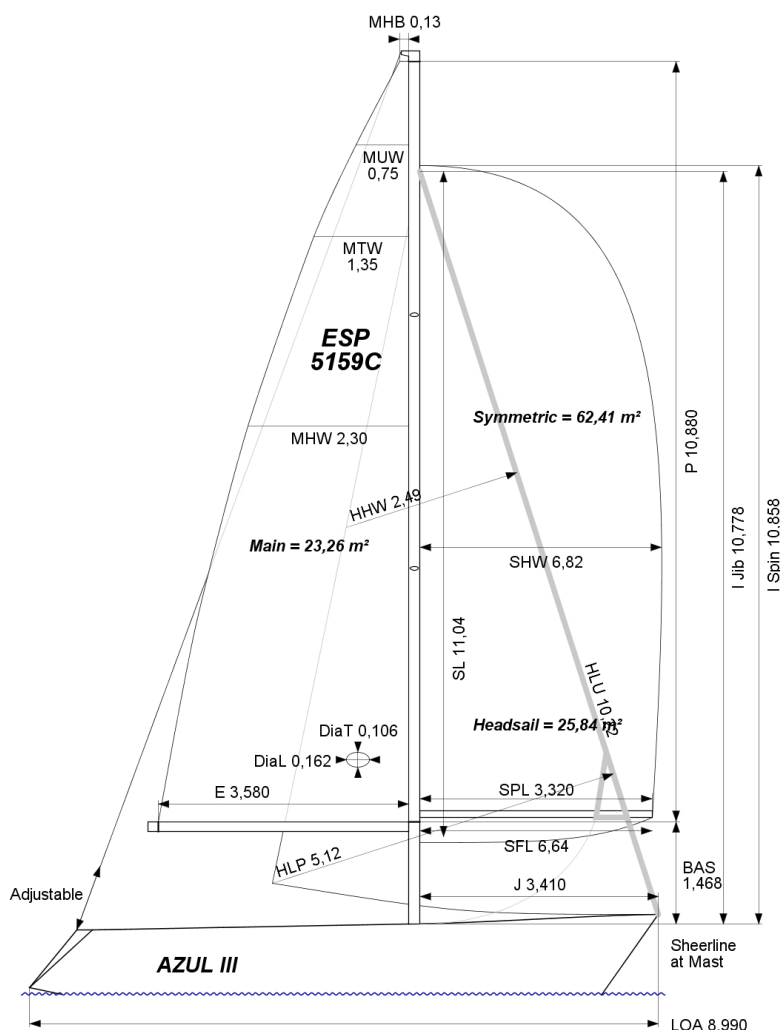
Class Division Length

CDL = 7.304

Stability (Estimated)

Limit Positive Stab.: **122.3°**
Stability Index: **119.9**

Owner



BOAT			GPH		HULL			
Name AZUL III			704.6		Data File	E5159_C	LOA	8.990m
Sail Nr ESP-5159_C					Offset File	RO300B.off	MB	3.248m
					Displacement	3,712kg	Draft	1.741m
CLASS					IMS Division	Cruiser/Racer	Dynamic All.	0.306%
Class					Plan Review		Construction	Solid
Designer					Fiber Rigging	No	Aramid Core	No
Builder					Crew Arm Ex		Carbon Rudder	No
Series					Light Stanchions			
Age Date					IMSL	7.927m	VCGD	-0.087m
Age Allowance					RL	6.685m	VCGM	-0.109m
					WS			18.77m²
COMMENTS					LSM0	7.840m	Displacement/Length ratio	7.7030
					Water Ballast	0	Trim Tab	No
					BLR Index	0.0000		
PROPELLER					CENTERBOARD			
Installation			Strut		PRD	0.385		
Type			Folding 2 blades		PIPA	0.0029		
SCORING OPTIONS								
	COASTAL / LONG DISTANCE						WINDWARD / LEEWARD	
Time on Distance	684.2						759.2	
Time on Time	0.8770						0.8891	
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	809.2	623.7	556.7	1045.1	764.0	660.7		
Time on Time	0.8342	1.0822	1.2125	0.6459	0.8835	1.0217		

2020

ORC Club Certificate Appendix

BOAT			
Name	AZUL III	Certificate Number	515901
Sail Nr	ESP-5159_C	Issued On	16/10/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1195.0	999.6	886.1	816.7	786.2	775.8	778.9	
52°	781.1	665.0	600.1	571.6	558.0	552.3	550.1	
60°	739.3	632.2	581.5	558.3	544.9	537.1	533.0	
75°	708.4	609.4	568.2	547.2	531.6	518.9	503.8	
90°	716.1	602.5	555.5	533.4	523.3	511.1	484.1	
110°	707.0	591.8	548.5	522.7	498.8	479.3	460.3	
120°	728.6	603.9	553.8	526.8	501.5	477.5	442.8	
135°	807.0	663.2	576.5	543.1	518.4	493.4	448.9	
150°	958.1	761.4	641.0	572.3	542.6	519.6	474.1	
Run VMG	1106.3	879.1	739.2	644.9	583.8	550.3	505.2	
Selected Courses								
Windward / Leeward	1150.7	939.3	812.7	730.8	685.0	663.0	642.1	
Circular Random	970.2	783.8	683.6	625.4	590.0	567.5	540.9	
Coastal / Long Distance	1146.2	881.5	732.7	643.7	599.5	567.7	516.6	
Non Spinnaker	1024.0	822.3	712.6	648.1	608.5	583.3	554.8	

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	42.8°	41.3°	41.3°	39.8°	39.0°	38.4°	39.0°	
Beat VMG	3.01	3.60	4.06	4.41	4.58	4.64	4.62	
52°	4.61	5.41	6.00	6.30	6.45	6.52	6.54	
60°	4.87	5.69	6.19	6.45	6.61	6.70	6.75	
75°	5.08	5.91	6.34	6.58	6.77	6.94	7.15	
90°	5.03	5.97	6.48	6.75	6.88	7.04	7.44	
110°	5.09	6.08	6.56	6.89	7.22	7.51	7.82	
120°	4.94	5.96	6.50	6.83	7.18	7.54	8.13	
135°	4.46	5.43	6.24	6.63	6.94	7.30	8.02	
150°	3.76	4.73	5.62	6.29	6.63	6.93	7.59	
Run VMG	3.25	4.10	4.87	5.58	6.17	6.54	7.13	
Gybe Angles	147.5°	152.0°	151.0°	161.5°	180.0°	180.0°	180.0°	