



ORC

Offshore Racing Congress
World leader in rating technology

2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress

COPY ONLY
Invalid for
Racing
World Leader In Rating Technology

Certificate

Number **US6736**
Issued On **22/10/2020**
ORC Ref **03410000S9Q**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 773kg
Maximum **773kg**
Minimum* **580kg**
**when applied by the NoR and SI*
Non Manual Pwr **Yes**

Special Scoring

ToD ToT
Non Spin GPH **643.3 0.9327**
Non Spin OSN **623.7 0.9620**

Sails Limitations

Headsails **6** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 142.51**
Flying H/S: **Yes 64.45**
Spin. Pole: **No**

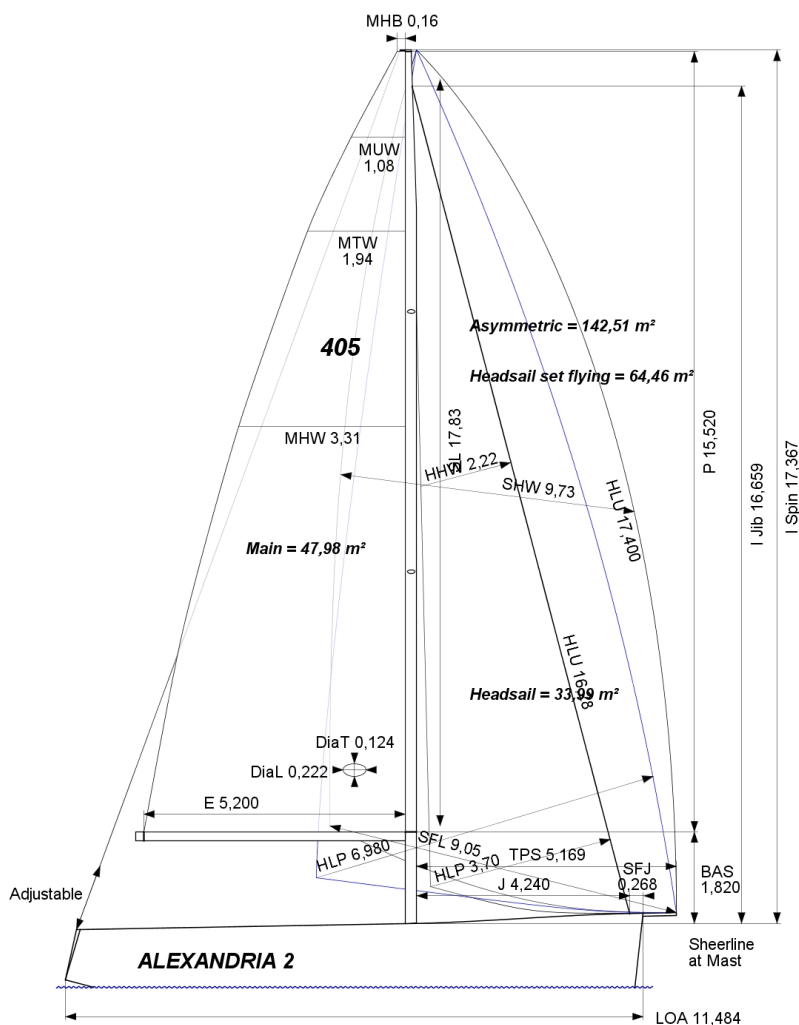
Class Division Length

CDL = 9.944

Stability (Estimated)

Limit Positive Stab.: **123.3°**
Stability Index: **127.9**

Owner



BOAT		GPH	HULL	
Name	ALEXANDRIA 2	590.7	Data File	us6736 LOA 11.484m
Sail Nr	405		Offset File	X 4.0 KEEL MB 3.818m
			Displacement	8,387kg Draft 2.122m
			IMS Division	Cruiser/Racer Dynamic All. 0.198%
			Plan Review	Construction Light
			Fiber Rigging	No Aramid Core No
			Crew Arm Ex	Carbon Rudder No
				Light Stanchions No
			IMSL	10.893m VCGD -0.040m Sink 23.61kg/mm
			RL	8.994m VCGM -0.066m WS 31.79m²
			LSM0	10.852m Displacement/Length ratio 6.5626
			Water Ballast	0 Trim Tab No
			BLR Index	0.0000
			CENTERBOARD	
			N/A	
PROPELLER				
Installation	Strut	PRD 0.430		
Type	Folding 2 blades	PBW 0.110		
		PIPA 0.0038		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	578.5			652.6		
Time on Time	1.0372			1.0344		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	665.6	526.2	476.3	868.8	656.3	577.4
Time on Time	1.0141	1.2827	1.4173	0.7769	1.0285	1.1691

2020

ORC Club Certificate Appendix

BOAT			
Name	ALEXANDRIA 2	Certificate Number	US6736
Sail Nr	405	Issued On	22/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	993.6	827.2	744.9	704.1	680.9	671.0	656.2
52°	639.8	539.0	494.9	479.2	471.9	467.9	465.2
60°	595.8	509.2	476.5	463.8	457.0	453.1	448.6
75°	555.0	487.3	462.4	448.3	439.3	433.7	427.5
90°	551.3	486.5	462.1	446.2	432.5	420.1	404.7
110°	589.2	493.3	458.4	437.7	421.5	410.5	391.9
120°	603.2	501.5	462.4	439.7	418.1	397.7	374.4
135°	673.0	545.6	481.5	454.2	432.9	411.0	369.9
150°	795.2	637.8	540.3	487.3	465.7	447.9	414.6
Run VMG	918.2	736.5	623.9	562.7	534.0	493.4	449.0
Selected Courses							
Windward / Leeward	955.9	781.8	684.4	633.4	607.4	582.2	552.6
Circular Random	802.8	652.6	573.6	528.9	501.9	484.2	460.9
Coastal / Long Distance	952.2	732.2	614.8	548.9	514.0	483.9	438.7
Non Spinnaker	907.8	723.7	622.7	562.8	525.7	501.8	472.9

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	44.3°	43.1°	42.8°	41.4°	40.1°	39.8°	39.0°
Beat VMG	3.62	4.35	4.83	5.11	5.29	5.37	5.49
52°	5.63	6.68	7.27	7.51	7.63	7.69	7.74
60°	6.04	7.07	7.56	7.76	7.88	7.94	8.02
75°	6.49	7.39	7.79	8.03	8.19	8.30	8.42
90°	6.53	7.40	7.79	8.07	8.32	8.57	8.90
110°	6.11	7.30	7.85	8.23	8.54	8.77	9.19
120°	5.97	7.18	7.79	8.19	8.61	9.05	9.62
135°	5.35	6.60	7.48	7.93	8.32	8.76	9.73
150°	4.53	5.64	6.66	7.39	7.73	8.04	8.68
Run VMG	3.92	4.89	5.77	6.40	6.74	7.30	8.02
Gybe Angles	144.0°	148.0°	147.5°	150.0°	152.5°	176.0°	178.0°