



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6736**
Issued On **11/01/2021**
ORC Ref **03410000TLN**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

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**

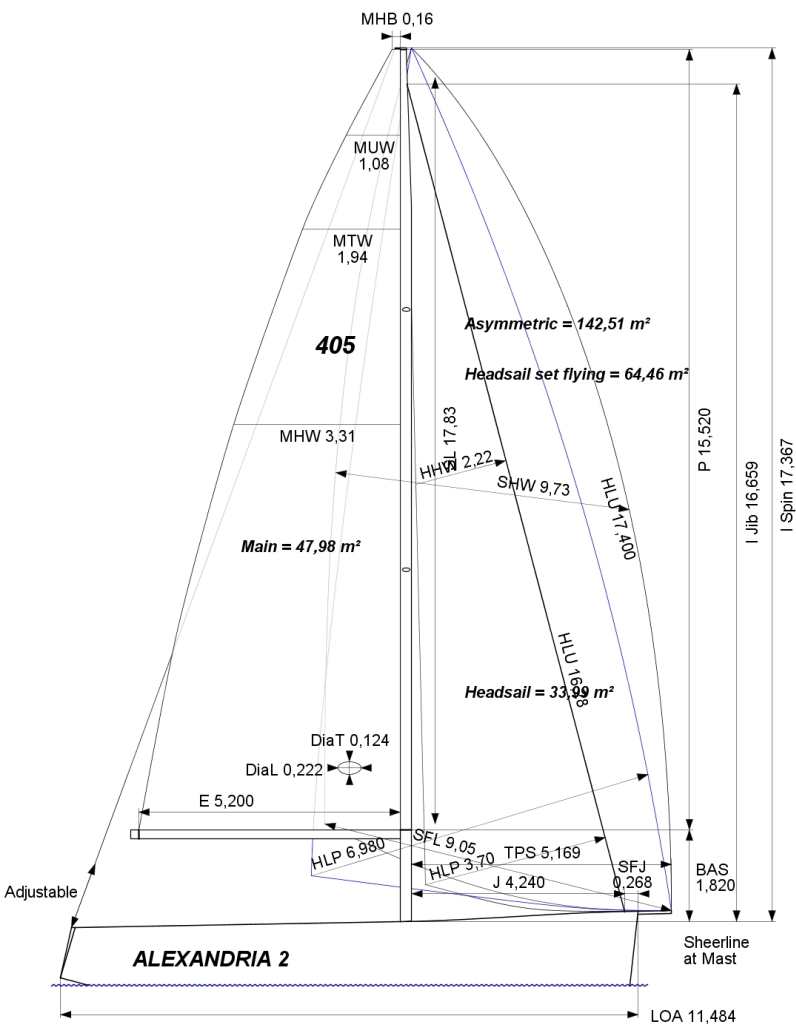
Class Division Length

CDL = 9.944

Stability (Estimated)

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

Owner



BOAT
Name ALEXANDRIA 2
Sail Nr 405

GPH
590.7

HULL
Data File us6736 LOA 11.484m
Offset File X 4.0 KEEL MB 3.818m
Displacement 8,387kg Draft 2.122m

CLASS
Class X 4.0
Designer NIELS JEPPESEN
Builder X-YACHTS
Series 01/2019
Age Date 01/2020
Age Allowance 0.033%

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

COMMENTS

Water Ballast 0 Trim Tab No
BLR Index 0.0000

PROPELLER
Installation Strut PRD 0.430
Type Folding 2 blades PBW 0.110
PIPA 0.0038

CENTERBOARD
N/A

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
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	11/01/2021

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°