



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **050/20**
Issued On **28/07/2020**
ORC Ref **03850000N89**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 796kg
Maximum **830kg**
Minimum* **623kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	603.5	0.9942
Non Spin OSN	587.4	1.0214

Sails Limitations

Headsails **6** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** 132.67
Asymmetric: **Yes** 126.31
Flying H/S: **Yes** 44.49
Spin. Pole: **Yes**

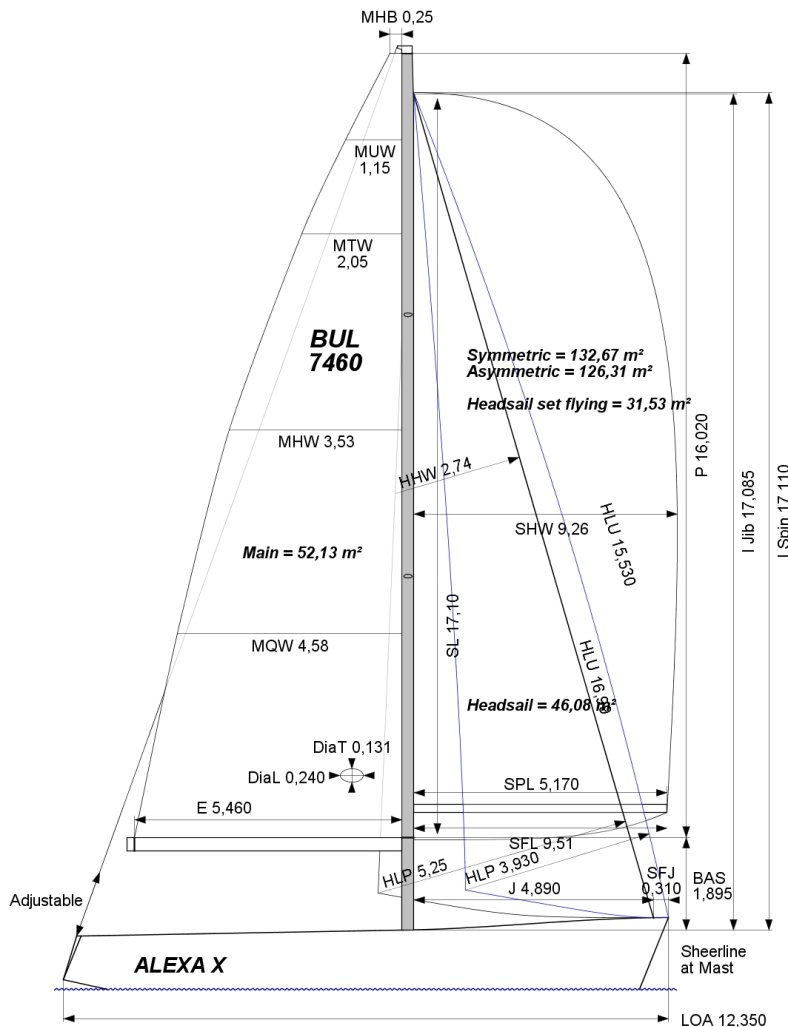
Class Division Length

CDL = 10.697

Stability (Measured)

Limit Positive Stab.: **123.2°**
Stability Index: **127.2**

Owner



BOAT		GPH	HULL			
Name Alexa X Sail Nr BUL 7460		570.2	Data File GER7460	LOA 12.350m		
			Offset File X41.OD.OFF	MB 3.646m		
			Displacement 7,113kg	Draft 2.507m		
			IMS Division Cruiser/Racer	Dynamic All. 0.000%		
			Plan Review	Construction Cored		
			Fiber Rigging No	Aramid Core No		
			Crew Arm Ex	Carbon Rudder No		
				Light Stanchions No		
			IMSL 11.164m	VCGD -0.056m	Sink 23.36kg/mm	
			RL 10.247m	VCGM -0.086m	WS 31.22m²	
			LSM0 11.076m	Displacement/Length ratio 5.2348		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
COMMENTS						
PROPELLER		CENTERBOARD				
Installation Strut	PRD 0.451	N/A				
Type Folding 2 blades	PIPA 0.0041					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	554.9			619.8		
Time on Time	1.0813			1.0891		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	648.9	506.4	452.6	837.6	622.1	543.6
Time on Time	1.0403	1.3329	1.4914	0.8059	1.0851	1.2417

2020

ORC Club Certificate Appendix

BOAT	
Name Alexa X	Certificate Number 050/20
Sail Nr BUL 7460	Issued On 28/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	943.2	776.8	691.1	659.6	643.2	636.9	629.0
52°	619.6	520.8	479.3	464.4	457.4	453.9	450.5
60°	586.6	501.0	467.3	452.7	444.3	439.7	435.2
75°	561.6	488.0	458.6	441.3	428.4	418.8	411.0
90°	566.8	487.9	456.6	439.1	422.0	407.4	387.1
110°	577.4	482.9	447.3	424.0	407.7	394.1	373.5
120°	594.2	492.4	452.7	426.3	401.0	380.6	353.7
135°	661.8	535.1	472.9	443.7	418.1	392.5	341.3
150°	784.8	627.3	529.7	474.0	446.2	422.5	375.6
Run VMG	906.2	724.3	611.7	541.0	494.9	460.3	414.2
Selected Courses							
Windward / Leeward	924.7	750.5	651.4	600.3	569.0	548.6	521.6
Circular Random	781.1	632.4	553.4	508.0	479.9	461.0	435.5
Coastal / Long Distance	922.9	705.9	589.3	525.9	490.3	462.0	416.5
Non Spinnaker	840.2	674.3	584.9	532.7	500.4	479.0	450.8

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°	39.8°	38.8°	38.3°	38.3°	38.1°
Beat VMG	3.82	4.63	5.21	5.46	5.60	5.65	5.72
52°	5.81	6.91	7.51	7.75	7.87	7.93	7.99
60°	6.14	7.19	7.70	7.95	8.10	8.19	8.27
75°	6.41	7.38	7.85	8.16	8.40	8.60	8.76
90°	6.35	7.38	7.88	8.20	8.53	8.84	9.30
110°	6.24	7.46	8.05	8.49	8.83	9.14	9.64
120°	6.06	7.31	7.95	8.44	8.98	9.46	10.18
135°	5.44	6.73	7.61	8.11	8.61	9.17	10.55
150°	4.59	5.74	6.80	7.59	8.07	8.52	9.58
Run VMG	3.97	4.97	5.89	6.65	7.27	7.82	8.69
Gybe Angles	142.0°	147.0°	149.5°	156.0°	170.0°	180.0°	180.0°