



ORC

Offshore Racing Congress
World leader in rating technology

2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6731**
Issued On **11/11/2020**
ORC Ref **03410000SR3**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 802kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

ToD ToT
Non Spin GPH **574.0 1.0453**
Non Spin OSN **560.6 1.0704**

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes 158.85**
Asymmetric: **Yes 158.71**
Flying H/S: **No**
Spin. Pole: **Yes**

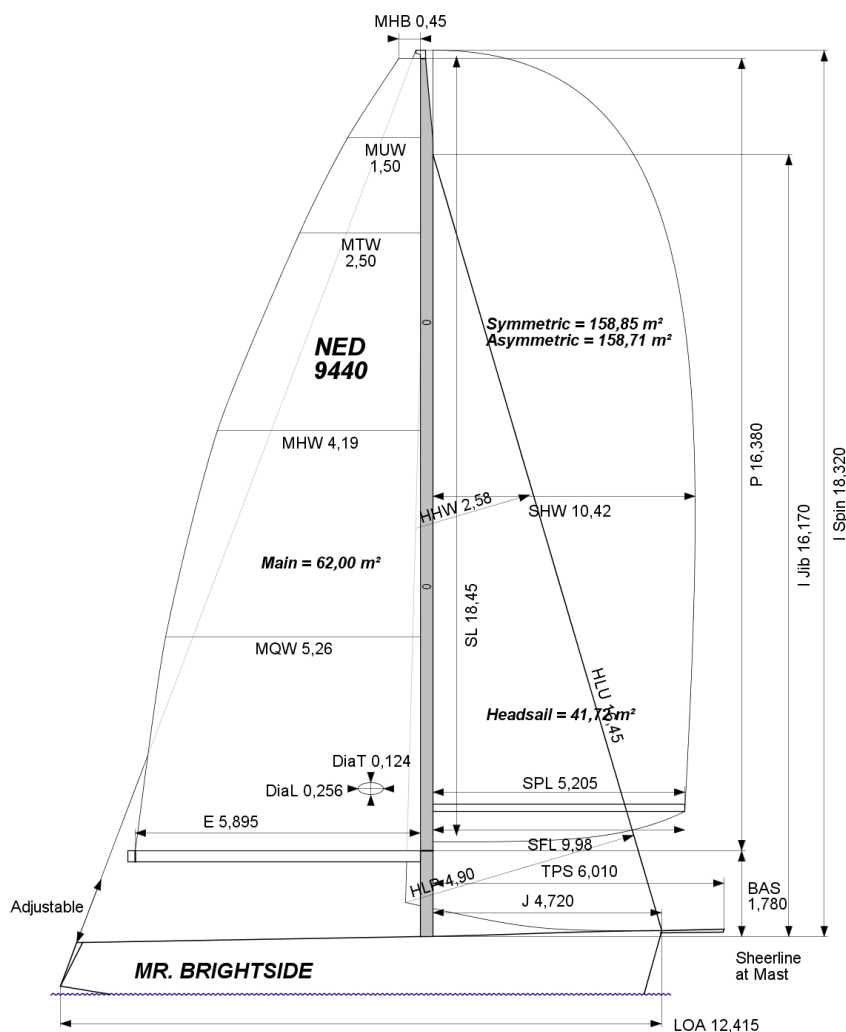
Class Division Length

CDL = 11.046

Stability (Measured)

Limit Positive Stab.: **129.3°**
Stability Index: **126.3**

Owner



BOAT		GPH		HULL			
Name mr. Brightside		535.4		Data File	US6731	LOA	12.415m
Sail Nr NED 9440				Offset File	I1805.off	MB	3.956m
				Displacement	5,546kg	Draft	2.359m
CLASS				IMS Division	Performance	Dynamic All.	0.000%
				Plan Review		Construction	Cored
				Fiber Rigging		Aramid Core	
				Crew Arm Ex		Carbon Rudder	
				Light Stanchions			
				IMSL	11.364m	VCGD	-0.286m Sink 21.66kg/mm
				RL	10.736m	VCGM	-0.308m WS 30.23m²
				LSM0	11.127m	Displacement/Length ratio 4.0257	
COMMENTS				Water Ballast	0	Trim Tab	
TPS needed for ORCi				BLR Index	0.0000		
PROPELLER				CENTERBOARD			
				N/A			
Installation	Strut	PRD	0.410				
Type	Folding 2 blades	PBW	0.102				

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	523.6			589.4		
Time on Time	1.1458			1.1452		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	600.6	479.4	424.9	780.7	593.4	520.5
Time on Time	1.1239	1.4079	1.5886	0.8646	1.1375	1.2969

2020

ORC Club Certificate Appendix

BOAT			
Name	mr. Brightside	Certificate Number	US6731
Sail Nr	NED 9440	Issued On	11/11/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	893.1	732.0	668.4	644.5	633.3	618.7	614.8	
52°	583.1	490.9	464.0	454.8	449.9	445.2	437.8	
60°	548.8	473.8	450.9	441.0	435.0	431.9	418.6	
75°	508.9	460.1	438.1	419.8	409.0	402.1	392.0	
90°	493.5	445.9	422.6	406.0	390.7	376.4	362.4	
110°	507.8	449.6	416.6	386.6	363.2	346.9	322.0	
120°	536.2	459.9	424.1	391.9	363.7	336.9	299.6	
135°	609.9	490.3	443.9	409.6	375.7	342.6	289.6	
150°	722.7	574.5	489.8	445.9	414.6	383.4	321.0	
Run VMG	834.4	663.3	565.5	506.9	468.7	437.1	370.7	
Selected Courses								
Windward / Leeward	863.8	697.7	617.0	575.7	551.0	527.9	492.7	
Circular Random	726.7	591.8	520.6	479.1	452.3	433.0	405.3	
Coastal / Long Distance	860.9	655.8	557.6	501.8	467.7	435.2	382.7	
Non Spinnaker	796.0	640.5	556.8	507.4	476.0	454.3	424.8	

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°	38.3°	38.3°	37.5°	38.2°	
Beat VMG	4.03	4.92	5.39	5.59	5.68	5.82	5.86	
52°	6.17	7.33	7.76	7.92	8.00	8.09	8.22	
60°	6.56	7.60	7.98	8.16	8.28	8.34	8.60	
75°	7.07	7.82	8.22	8.57	8.80	8.95	9.18	
90°	7.30	8.07	8.52	8.87	9.21	9.56	9.93	
110°	7.09	8.01	8.64	9.31	9.91	10.38	11.18	
120°	6.71	7.83	8.49	9.19	9.90	10.69	12.02	
135°	5.90	7.34	8.11	8.79	9.58	10.51	12.43	
150°	4.98	6.27	7.35	8.07	8.68	9.39	11.21	
Run VMG	4.31	5.43	6.37	7.10	7.68	8.24	9.71	
Gybe Angles	143.5°	143.1°	149.5°	156.5°	170.0°	180.0°	146.5°	