



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6731**
Issued On **18/01/2021**
ORC Ref **03410000TSD**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

Crew Weight

Default 803kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	575.0	1.0435
Non Spin OSN	561.7	1.0683

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**

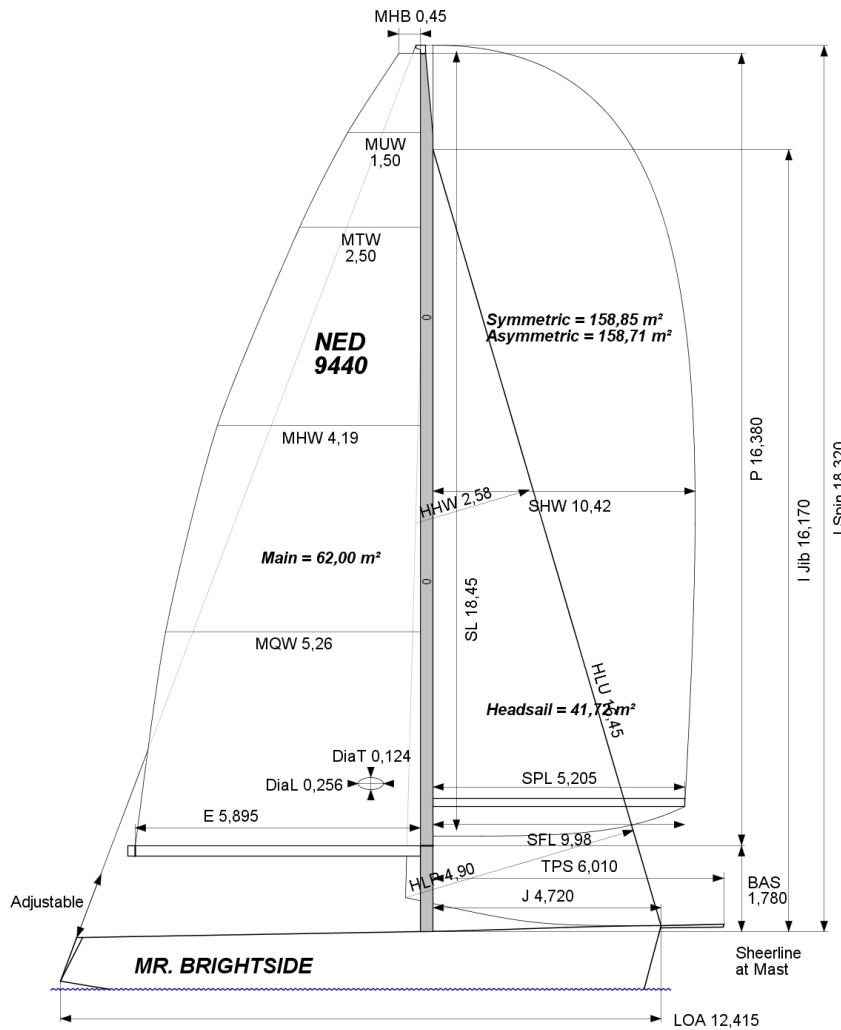
Class Division Length

CDL = 10.993

Stability (Measured)

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

Owner



BOAT		GPH	HULL			
Name mr. Brightside Sail Nr NED 9440		536.4	Data File US6731	LOA 12.415m		
			Offset File FARR40-	MB 3.956m		
			Displacement 5,547kg	Draft 2.357m		
CLASS			IMS Division Performance	Dynamic All. 0.000%		
Class Farr 40			Plan Review	Construction Cored		
Designer Farr			Fiber Rigging	Aramid Core		
Builder US Watercraft			Crew Arm Ex	Carbon Rudder		
Series 05/1997				Light Stanchions		
Age Date 06/2018			IMSL 11.363m	VCGD -0.288m	Sink 21.65kg/mm	
Age Allowance 0.487%			RL 10.631m	VCGM -0.310m	WS 30.23m²	
COMMENTS			LSM0 11.145m	Displacement/Length ratio 4.0070		
TPS needed for ORCi			Water Ballast 0	Trim Tab		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.410	N/A				
Type Folding 2 blades	PBW 0.102					
	PIPA 0.0036					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	524.7			590.9		
Time on Time	1.1435			1.1423		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	601.3	480.4	425.9	781.8	595.1	522.1
Time on Time	1.1225	1.4050	1.5850	0.8634	1.1343	1.2928



2020

ORC Club Certificate Appendix

BOAT	
Name	mr. Brightside
Sail Nr	NED 9440
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	894.2	733.9	671.4	647.6	636.6	621.5	618.4
52°	583.7	492.0	465.0	455.7	450.9	446.0	439.0
60°	549.4	474.5	451.6	441.8	435.9	432.6	419.7
75°	509.8	460.9	438.5	420.4	409.7	402.8	392.5
90°	494.0	446.3	423.2	406.6	391.0	376.8	362.9
110°	508.2	449.8	416.9	386.9	363.4	347.2	322.2
120°	536.7	460.2	424.3	392.1	363.9	337.0	299.7
135°	610.4	490.6	444.1	409.8	375.8	342.8	289.6
150°	723.2	574.9	490.0	446.0	414.8	383.5	321.1
Run VMG	835.1	663.9	565.8	507.1	468.8	437.2	370.8
Selected Courses							
Windward / Leeward	864.7	698.9	618.6	577.3	552.7	529.3	494.6
Circular Random	727.7	592.7	521.5	480.1	453.3	434.0	406.4
Coastal / Long Distance	861.7	656.9	558.9	503.0	468.8	436.0	383.5
Non Spinnaker	797.1	641.5	557.8	508.4	477.0	455.3	425.9

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	42.9°	41.3°	39.8°	38.6°	38.6°	37.9°	38.4°
Beat VMG	4.03	4.91	5.36	5.56	5.66	5.79	5.82
52°	6.17	7.32	7.74	7.90	7.98	8.07	8.20
60°	6.55	7.59	7.97	8.15	8.26	8.32	8.58
75°	7.06	7.81	8.21	8.56	8.79	8.94	9.17
90°	7.29	8.07	8.51	8.85	9.21	9.55	9.92
110°	7.08	8.00	8.64	9.31	9.91	10.37	11.17
120°	6.71	7.82	8.48	9.18	9.89	10.68	12.01
135°	5.90	7.34	8.11	8.79	9.58	10.50	12.43
150°	4.98	6.26	7.35	8.07	8.68	9.39	11.21
Run VMG	4.31	5.42	6.36	7.10	7.68	8.23	9.71
Gybe Angles	143.5°	143.0°	149.5°	156.5°	170.0°	180.0°	147.0°