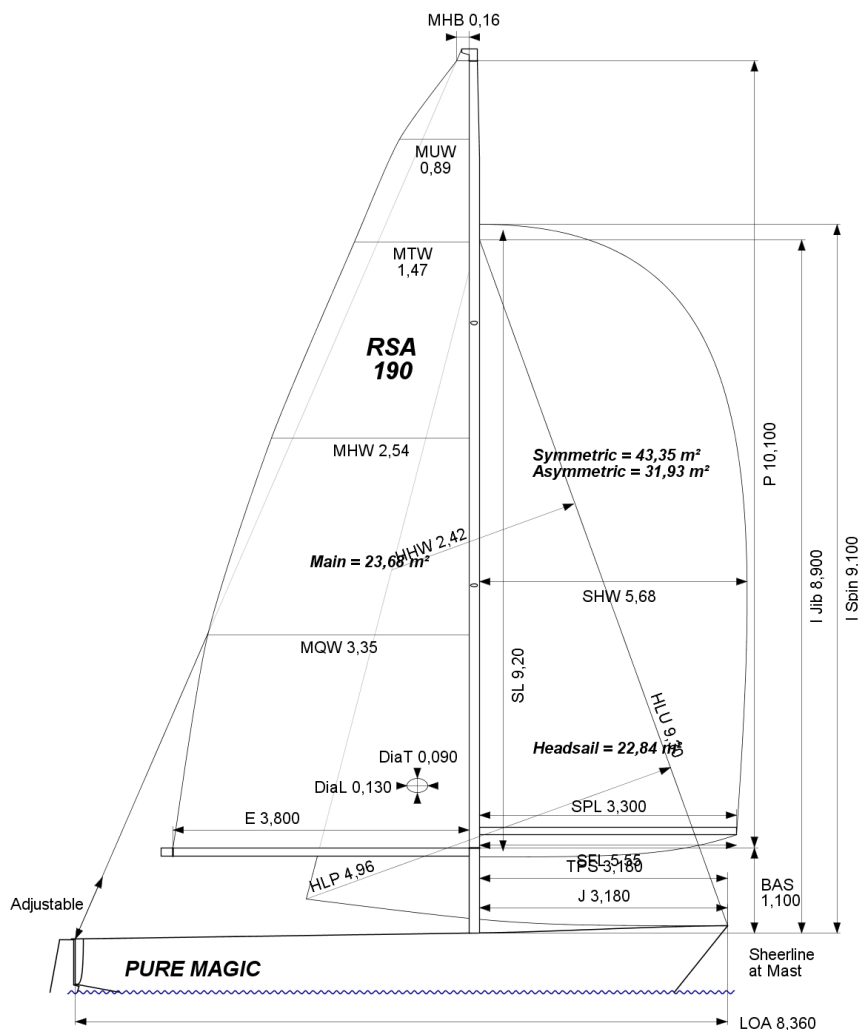




ORC
Offshore Racing Congress
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2020 ORC Club Certificate

Rating Office

Offshore
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Congress

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Certificate

Number **134/20**
Issued On **01/09/2020**
ORC Ref **02920000PEO**
VPP Ver. **2020 1.02**
Valid until **30/06/2021**

Crew Weight

Default 431kg
Maximum **375kg**
Minimum* **281kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **685.1 0.8758**
Non Spin OSN **667.2 0.8993**

Sails Limitations

Headsails **5** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes 43.35**
Asymmetric: **Yes 36.26**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **7.425**

Stability (Estimated)

Limit Positive Stab.: **105.7°**
Stability Index: **100.1**

Owner

BOAT		GPH		HULL			
Name Pure Magic Sail Nr RSA-190		664.1		Data File RSA190	LOA 8.360m		
				Offset File us18763c.off	MB 2.597m		
				Displacement 1,730kg	Draft 1.512m		
CLASS				IMS Division Sportboat	Dynamic All. 0.000%		
				Plan Review	Construction Cored		
				Fiber Rigging No	Aramid Core No		
				Crew Arm Ex	Carbon Rudder No		
					Light Stanchions No		
				IMSL 7.449m	VCGD 0.015m	Sink 10.32kg/mm	
				RL 7.400m	VCGM 0.011m	WS 13.44m²	
				LSM0 7.197m	Displacement/Length ratio 4.6408		
COMMENTS				Water Ballast 0 Trim Tab No BLR Index 0.0000			
PROPELLER				CENTERBOARD			
Type No Propeller				N/A			
SCORING OPTIONS							
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD		
Time on Distance	647.6				725.1		
Time on Time	0.9265				0.9309		
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	748.3	592.5	529.5	968.4	725.9	643.8	
Time on Time	0.9020	1.1393	1.2749	0.6970	0.9299	1.0485	

2020

ORC Club Certificate Appendix

BOAT			
Name	Pure Magic	Certificate Number	134/20
Sail Nr	RSA-190	Issued On	01/09/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1062.4	881.3	801.0	776.2	766.3	766.2	767.1	
52°	699.8	598.0	566.0	555.8	550.6	547.9	543.3	
60°	661.5	580.9	552.5	540.2	533.3	529.3	522.9	
75°	632.3	569.2	539.5	516.6	504.0	496.4	490.0	
90°	630.7	560.7	525.4	495.1	477.2	465.3	451.2	
110°	660.7	571.7	530.0	491.7	461.6	430.7	390.6	
120°	695.4	582.8	538.0	498.5	461.6	427.3	370.9	
135°	773.6	633.0	564.2	527.3	490.1	454.4	378.8	
150°	934.7	736.0	622.0	561.0	526.8	492.3	425.9	
Run VMG	1079.3	850.9	715.8	626.8	570.1	536.4	472.7	
Selected Courses								
Windward / Leeward	1070.8	866.1	758.4	701.5	668.2	651.3	619.9	
Circular Random	903.0	734.4	645.2	593.8	561.6	539.3	507.1	
Coastal / Long Distance	1071.7	815.9	687.9	616.4	575.6	541.8	480.3	
Non Spinnaker	938.8	760.0	665.0	610.1	576.1	552.9	520.8	

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°	39.0°	38.3°	37.9°	38.1°	38.6°	
Beat VMG	3.39	4.08	4.49	4.64	4.70	4.70	4.69	
52°	5.14	6.02	6.36	6.48	6.54	6.57	6.63	
60°	5.44	6.20	6.52	6.66	6.75	6.80	6.89	
75°	5.69	6.32	6.67	6.97	7.14	7.25	7.35	
90°	5.71	6.42	6.85	7.27	7.54	7.74	7.98	
110°	5.45	6.30	6.79	7.32	7.80	8.36	9.22	
120°	5.18	6.18	6.69	7.22	7.80	8.43	9.71	
135°	4.65	5.69	6.38	6.83	7.35	7.92	9.50	
150°	3.85	4.89	5.79	6.42	6.83	7.31	8.45	
Run VMG	3.34	4.23	5.03	5.74	6.31	6.71	7.62	
Gybe Angles	146.5°	151.0°	152.0°	166.0°	180.0°	180.0°	180.0°	