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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6596**
Issued On **02/09/2020**
ORC Ref **03410000PMB**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **1,186kg**
Maximum **1,202kg**
Minimum* **902kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	533.3	1.1251
Non Spin OSN	522.9	1.1475

Sails Limitations

Headsails **7** Spinnakers **5**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 226.80**
Flying H/S: **No**
Spin. Pole: **No**

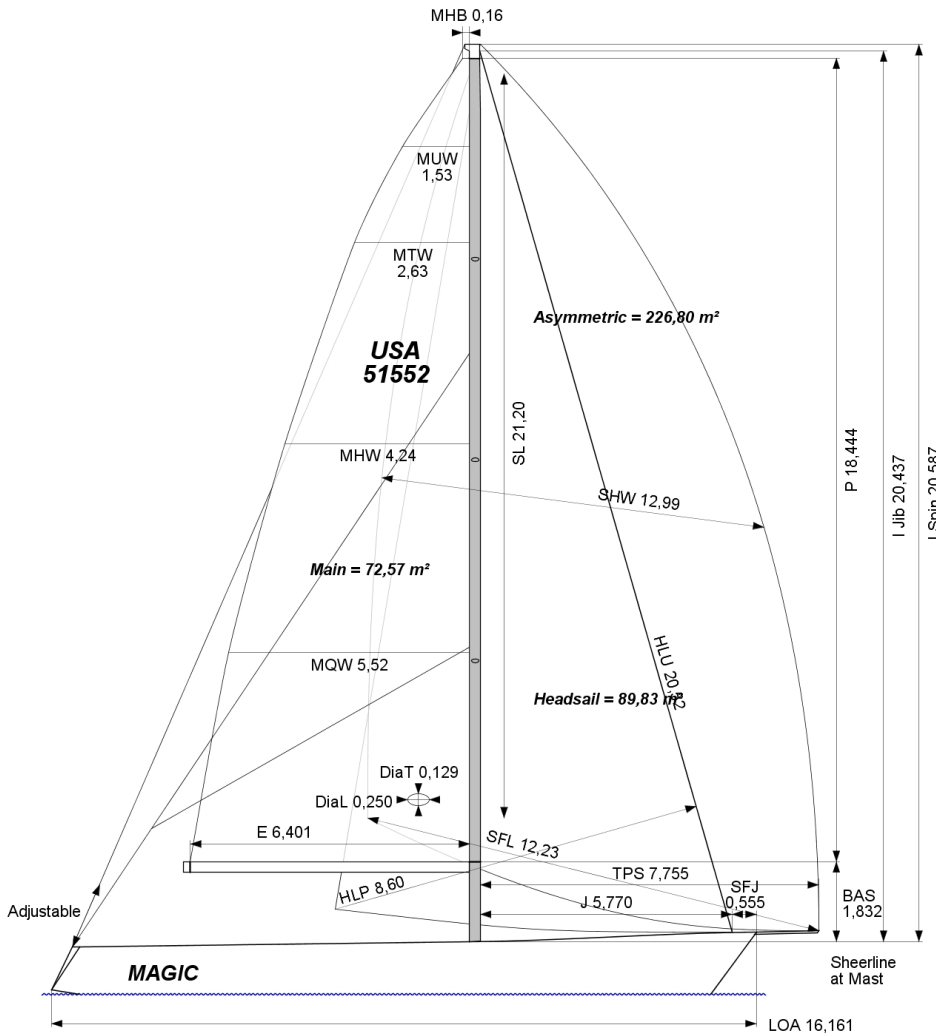
Class Division Length

CDL = 13.743

Stability (Measured)

Limit Positive Stab.: **110.3°**
Stability Index: **115.6**

Owner



BOAT	GPH	HULL
Name MAGIC Sail Nr USA-51552	503.7	Data File US6596 LOA 16.161m Offset File US30240.OFF MB 4.304m Displacement 10,441kg Draft 2.754m
CLASS Class SNC52 Designer BILL LEE Builder SANTA CRUZ Series 07/1992 Age Date 01/2005 Age Allowance 0.487%		IMS Division Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder Yes Light Stanchions No
COMMENTS 20 GAL FUEL ABOARD FOR INCLINING FBD'S AJDUST FOR FUEL HULL#0 SOLD AS KIT IN 1992 NEW TALL MAST 2010		IMSL 14.585m VCGD 0.065m Sink 34.24kg/mm RL 12.896m VCGM 0.022m WS 43.56m² LSM0 14.647m Displacement/Length ratio 3.3227
PROPELLER Installation Shaft exposed PRD 0.531 Type Feathering 3 blades PBW 0.144 PIPA 0.0082		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	492.5	557.0
Time on Time	1.2184	1.2119
Triple Number	Low Medium High	Low Medium High
Time on Distance	573.2 447.2 397.9	750.6 557.6 488.7
Time on Time	1.1775 1.5094 1.6965	0.8993 1.2105 1.3811

2020

ORC Club Certificate Appendix

BOAT							
Name	MAGIC	Certificate Number	US6596				
Sail Nr	USA-51552	Issued On	02/09/2020				

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	819.4	674.2	615.6	588.0	572.8	565.6	549.2
52°	533.4	447.7	422.3	412.2	406.8	403.8	395.2
60°	501.5	429.6	409.3	400.6	395.2	391.4	383.5
75°	477.4	418.2	397.4	385.0	376.6	370.9	363.6
90°	481.3	415.4	391.8	376.6	361.0	350.9	339.1
110°	502.1	422.2	392.4	367.9	345.9	328.9	306.4
120°	532.6	437.0	397.6	371.7	349.5	328.1	290.9
135°	610.5	477.2	416.2	388.1	360.9	334.0	284.6
150°	730.1	576.6	475.9	420.5	394.9	374.5	323.6
Run VMG	843.0	665.7	549.5	486.2	455.9	432.4	373.6
Selected Courses							
Windward / Leeward	831.2	670.0	582.5	537.1	514.4	499.0	461.4
Circular Random	691.3	559.0	488.9	448.5	423.2	405.3	377.8
Coastal / Long Distance	832.4	628.9	524.2	465.9	434.9	409.1	361.1
Non Spinnaker	741.0	595.7	517.2	470.8	441.2	420.8	393.0

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	43.5°	42.0°	40.5°	39.0°	38.1°	37.5°	37.5°
Beat VMG	4.39	5.34	5.85	6.12	6.29	6.36	6.56
52°	6.75	8.04	8.53	8.73	8.85	8.92	9.11
60°	7.18	8.38	8.80	8.99	9.11	9.20	9.39
75°	7.54	8.61	9.06	9.35	9.56	9.71	9.90
90°	7.48	8.67	9.19	9.56	9.97	10.26	10.62
110°	7.17	8.53	9.18	9.79	10.41	10.95	11.75
120°	6.76	8.24	9.05	9.68	10.30	10.97	12.37
135°	5.90	7.54	8.65	9.28	9.98	10.78	12.65
150°	4.93	6.24	7.57	8.56	9.12	9.61	11.13
Run VMG	4.27	5.41	6.55	7.41	7.90	8.33	9.64
Gybe Angles	142.0°	144.0°	144.0°	151.0°	151.5°	148.3°	144.8°