



ORC
Offshore Racing Congress
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2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6348**
Issued On **20/10/2020**
ORC Ref **03410000S6W**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 508kg
Maximum **725kg**
Minimum* **544kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **658.6 0.9110**
Non Spin OSN **640.3 0.9371**

Sails Limitations

Headsails **5** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 91.94**
Flying H/S: **No**
Spin. Pole: **No**

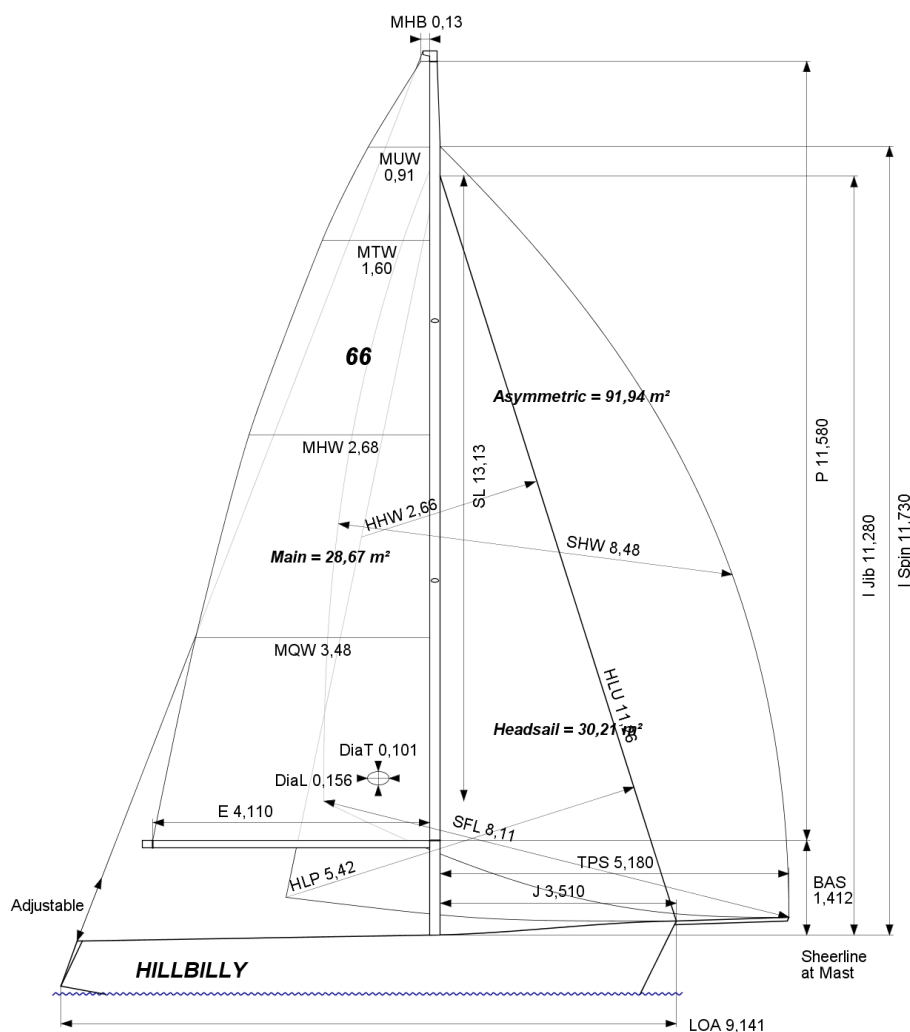
Class Division Length

CDL = 8.453

Stability (Estimated)

Limit Positive Stab.: **114.5°**
Stability Index: **109.3**

Owner



BOAT		GPH		HULL		
Name HILLBILLY		622.2		Data File US6348	LOA 9.141m	
Sail Nr 66				Offset File H194.OFF	MB 3.042m	
				Displacement 2,626kg	Draft 1.816m	
CLASS				IMS Division Performance	Dynamic All. 0.000%	
Class	J 92			Plan Review	Construction Cored	
Designer	JOHNSTONE			Fiber Rigging No	Aramid Core No	
Builder	TPI			Crew Arm Ex 0.00	Carbon Rudder No	
Series	01/1994, CIN 66			Light Stanchions		
Age Date	01/1994			IMSL 8.248m	VCGD -0.085m Sink 12.95kg/mm	
Age Allowance	0.487%			RL 8.665m	VCGM -0.083m WS 16.84m²	
COMMENTS				LSM0 8.078m	Displacement/Length ratio 4.9818	
				Water Ballast 0	Trim Tab No	
				BLR Index 0.0000		
PROPELLER				CENTERBOARD		
Installation	Shaft exposed	PRD	0.305	N/A		
Type	Folding 2 blades	PBW	0.086			
		PIPA	0.0032			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	607.0			683.1		
Time on Time	0.9884			0.9881		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	700.1	555.9	495.3	903.9	683.2	605.9
Time on Time	0.9642	1.2142	1.3627	0.7468	0.9880	1.1140

2020

ORC Club Certificate Appendix

BOAT			
Name	HILLBILLY	Certificate Number	US6348
Sail Nr	66	Issued On	20/10/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1019.6	845.2	750.5	717.3	703.8	697.1	695.3	
52°	670.1	572.8	537.7	522.6	515.5	511.4	508.9	
60°	633.4	555.5	526.7	508.8	499.1	493.2	488.7	
75°	607.0	539.9	511.9	492.9	474.2	464.1	454.6	
90°	587.4	528.1	495.2	467.7	450.8	438.9	421.4	
110°	608.1	531.9	493.1	459.8	433.2	405.2	364.5	
120°	630.6	539.0	498.9	460.6	426.4	397.8	346.3	
135°	712.9	576.1	522.3	486.1	450.2	414.6	337.0	
150°	842.1	673.8	574.4	528.8	502.6	475.5	399.0	
Run VMG	972.4	778.0	663.3	609.0	567.2	531.1	460.7	
Selected Courses								
Windward / Leeward	996.0	811.6	706.9	663.1	635.5	614.1	578.0	
Circular Random	844.0	687.5	604.8	556.9	526.4	504.5	470.7	
Coastal / Long Distance	993.6	764.1	642.2	578.0	540.6	507.9	448.5	
Non Spinnaker	908.7	733.3	639.0	583.8	549.3	526.0	494.4	

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	42.0°	41.3°	38.3°	36.8°	36.0°	35.6°	36.0°	
Beat VMG	3.53	4.26	4.80	5.02	5.11	5.16	5.18	
52°	5.37	6.28	6.70	6.89	6.98	7.04	7.07	
60°	5.68	6.48	6.83	7.08	7.21	7.30	7.37	
75°	5.93	6.67	7.03	7.30	7.59	7.76	7.92	
90°	6.13	6.82	7.27	7.70	7.99	8.20	8.54	
110°	5.92	6.77	7.30	7.83	8.31	8.88	9.88	
120°	5.71	6.68	7.22	7.82	8.44	9.05	10.40	
135°	5.05	6.25	6.89	7.41	8.00	8.68	10.68	
150°	4.28	5.34	6.27	6.81	7.16	7.57	9.02	
Run VMG	3.70	4.63	5.43	5.91	6.35	6.78	7.81	
Gybe Angles	144.5°	148.0°	149.0°	151.5°	176.0°	177.5°	139.5°	