



ORC

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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6700**
Issued On **27/08/2020**
ORC Ref **03410000P40**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 658kg
Maximum **658kg**
Minimum* **494kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	658.8	0.9107
Non Spin OSN	638.0	0.9404

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 113.55**
Flying H/S: **No**
Spin. Pole: **No**

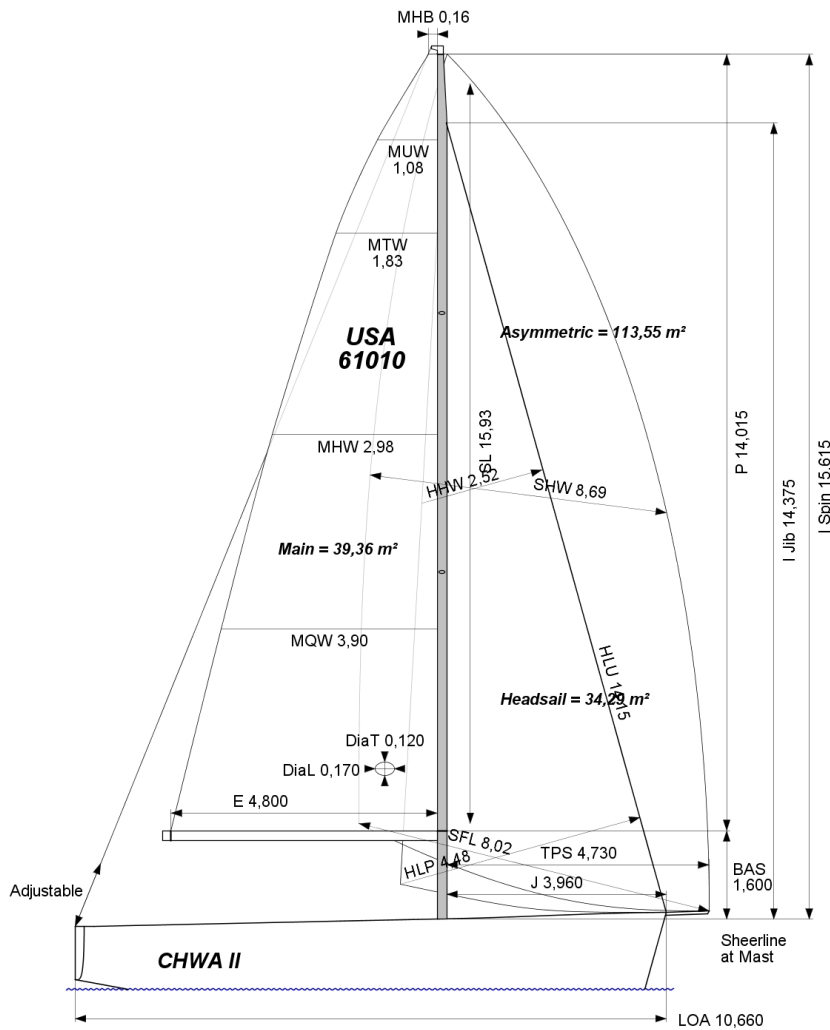
Class Division Length

CDL = 9.269

Stability (Estimated)

Limit Positive Stab.: **126.5°**
Stability Index: **127.3**

Owner



BOAT	GPH	HULL
Name CHWA II Sail Nr USA 61010	620.0	Data File US6700 LOA 10.660m Offset File F242.OFF MB 3.636m Displacement 5,971kg Draft 2.221m
CLASS Class First 35 Designer FARR Builder BENETEAU Series 02/2009 Age Date 01/2015 Age Allowance 0.357%		IMS Division Cruiser/Racer Dynamic All. 0.208% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.801m VCGD -0.058m Sink 19.66kg/mm RL 8.737m VCGM -0.077m WS 26.72m² LSM0 9.690m Displacement/Length ratio 6.5626
PROPELLER Installation Strut PRD 0.440 Type Folding 2 blades PBW 0.120 PIPA 0.0032		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	603.3	676.1
Time on Time	0.9945	0.9983
Triple Number	Low Medium High	Low Medium High
Time on Distance	705.8 549.9 496.1	912.2 678.7 597.6
Time on Time	0.9564 1.2274 1.3607	0.7400 0.9945 1.1296

2020

ORC Club Certificate Appendix

BOAT			
Name	CHWA II	Certificate Number	US6700
Sail Nr	USA 61010	Issued On	27/08/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1052.6	872.0	766.9	714.4	696.2	688.9	680.3	
52°	689.0	581.8	526.2	503.7	494.8	491.0	488.0	
60°	651.4	555.0	511.6	492.3	482.1	477.6	475.0	
75°	623.1	536.4	501.1	482.3	468.5	458.0	448.9	
90°	620.6	522.9	488.2	476.0	463.6	448.4	424.6	
110°	611.6	514.5	479.7	456.4	437.8	426.1	406.7	
120°	629.0	523.9	484.5	459.3	434.7	412.6	387.3	
135°	702.2	569.4	504.7	475.9	451.8	427.4	382.3	
150°	829.3	663.8	563.2	511.2	486.9	469.3	430.7	
Run VMG	957.6	766.4	650.3	590.3	558.3	513.2	468.1	
Selected Courses								
Windward / Leeward	1005.1	819.2	708.6	652.4	627.2	601.1	574.2	
Circular Random	848.7	687.1	601.5	552.9	523.6	504.5	479.9	
Coastal / Long Distance	1000.3	768.6	639.8	569.9	535.3	504.8	458.4	
Non Spinnaker	922.9	738.4	638.0	579.2	543.1	519.9	491.5	

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°	40.5°	39.0°	38.3°	37.9°	38.3°	
Beat VMG	3.42	4.13	4.69	5.04	5.17	5.23	5.29	
52°	5.22	6.19	6.84	7.15	7.28	7.33	7.38	
60°	5.53	6.49	7.04	7.31	7.47	7.54	7.58	
75°	5.78	6.71	7.18	7.46	7.68	7.86	8.02	
90°	5.80	6.89	7.37	7.56	7.76	8.03	8.48	
110°	5.89	7.00	7.51	7.89	8.22	8.45	8.85	
120°	5.72	6.87	7.43	7.84	8.28	8.73	9.30	
135°	5.13	6.32	7.13	7.56	7.97	8.42	9.42	
150°	4.34	5.42	6.39	7.04	7.39	7.67	8.36	
Run VMG	3.76	4.70	5.54	6.10	6.45	7.02	7.69	
Gybe Angles	144.0°	148.0°	148.0°	150.0°	174.0°	177.0°	178.0°	