

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est698**
Issued On **5/19/2020**
ORC Ref **03580000IIQ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default	344kg
Maximum	340kg
Minimum*	255kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	816.0	0.7353
Non Spin OSN	787.2	0.7622

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

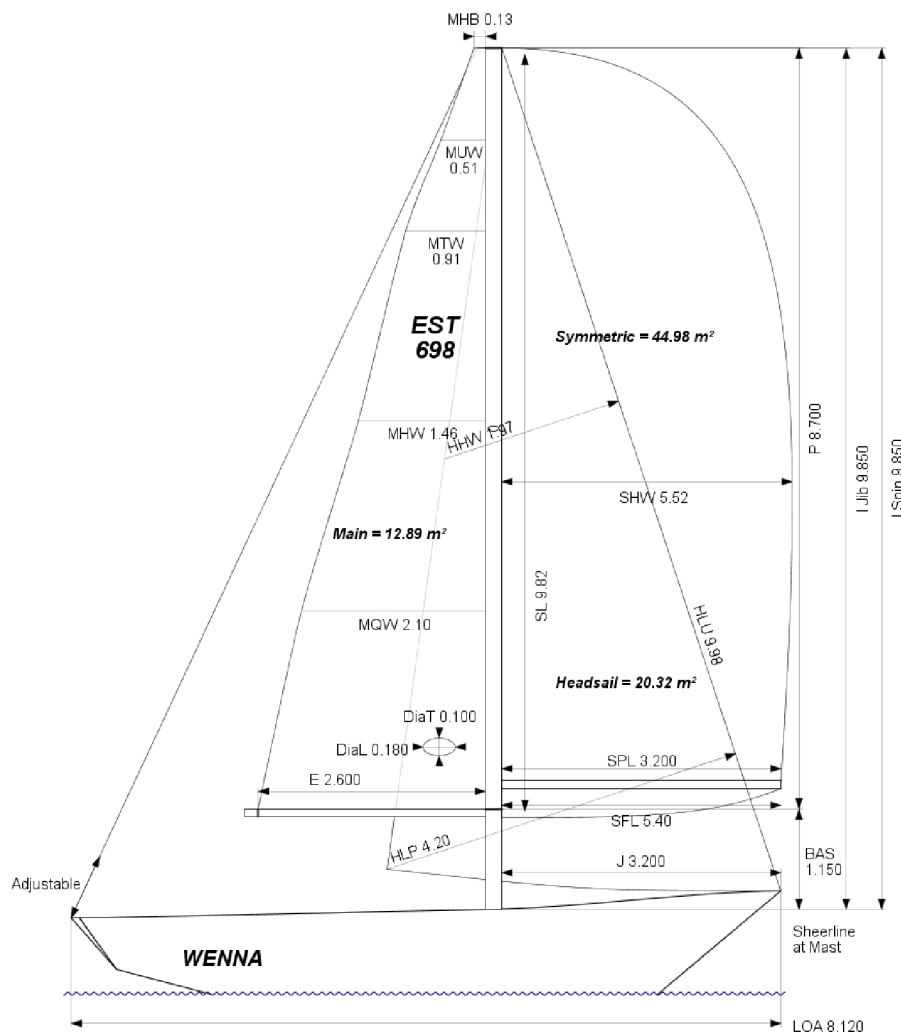
Symmetric: **Yes** **44.98**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 5.812

Stability (Estimated)

Limit Positive Stab.: **116.4°**
Stability Index: **112.5**



BOAT			GPH			HULL					
Name WENNA			777.6			Data File Est0698		LOA 8.120m			
Sail Nr EST 698						Offset File Becker27 2013-		MB 2.774m			
						Displacement 2,310kg		Draft 1.386m			
CLASS						IMS Division Cruiser/Racer		Dynamic All. 0.513%			
						Plan Review		Construction Solid			
						Fiber Rigging No		Aramid Core No			
						Crew Arm Ex		Carbon Rudder No			
								Light Stanchions No			
						IMSL 6.321m		VCGD -0.089m		Sink 9.54kg/mm	
						RL 5.302m		VCGM 0.005m		WS 13.72m²	
						LSM0 6.148m		Displacement/Length ratio			
COMMENTS						Water Ballast		Trim Tab No			
						BLR Index 0.0000					
PROPELLER						CENTERBOARD					
Installation Shaft exposed			PRD 0.360			N/A					
Type Folding 2 blades			PIPA 0.0012								
SCORING OPTIONS											
			COASTAL / LONG DISTANCE				WINDWARD / LEEWARD				
Time on Distance			753.9				837.2				
Time on Time			0.7959				0.8062				
Triple Number			Low	Medium	High	Low	Medium	High			
Time on Distance			892.4	688.4	614.1	1144.6	842.9	731.4			
Time on Time			0.7564	0.9805	1.0991	0.5897	0.8008	0.9229			

BOAT										INCLINING TEST AND FREEBOARDS									
Name WENNA					Sail Nr EST 698					Inclining Test Club Estimated VCG									
File Est0698					Data in meters/kilograms					Flotation date 17/10/2019 SG									
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No					FFM FF 1.169 SFFP 0.356 FAM FA 0.677 SAFF 7.724					LCF from stem on CL / on sheer 4.620 / 4.802 Maximum beam station from stem 4.888 RM Measured 37.9kg·m RM Default 36.8kg·m Limit of positive stability / Stab.Index 116.4° / 112.5 Freeboard at mast at 3.200 0.964									
P 8.700 E 2.600 MDT1 0.100 MW IG 9.850 J 3.200 MDL1 0.180 GO ISP 9.850 SFJ MDT2 BD BAS 1.150 SPL 3.200 MDL2 MWT FSD TPS TL MCG					PROPELLER Installation Shaft exposed PRD 0.360 Type Folding 2 blades PBW Twin Screw PIPA 0.0012 PSA PHL ST3 ESL PSD ST1 ST4 PHD ST2 ST5					Certificate Number Est698 ORC Ref 03580000IIQ Issued On 5/19/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020									
MIZZEN RIG AND SAILS N/A										MOVABLE BALLAST N/A									
COMMENTS 										CENTERBOARD N/A									
SAILS INVENTORY																			
MAINSAIL (1)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	0.13	0.51	0.91	1.46	2.10	12.69	EST 7			Polyester									
HEADSAILS (2)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
2	0.05	0.47	0.94	1.97	3.09	4.20	9.98	131%	20.32	No	EST 7				Polyest				
1	0.06	0.43	0.84	1.70	2.61	3.57	9.04	112%	15.77	No	EST 7				Polyest				
SYMMETRIC SPINNAKERS (1)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
2	9.82	9.82	9.82	5.52	5.40	44.98	EST 7												
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							



2020 Measurements Datasheet

2020

ORC Club Certificate Appendix

BOAT			
Name	WENNA	Certificate Number	Est698
Sail Nr	EST 698	Issued On	5/19/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1343.5	1125.6	1000.8	917.0	876.4	865.6	877.9
52°	877.3	742.8	669.2	635.2	617.3	609.3	608.8
60°	830.6	703.8	646.2	619.2	602.2	591.4	587.3
75°	799.4	679.0	629.9	605.3	586.5	570.5	552.0
90°	802.5	665.4	611.8	585.4	571.3	562.1	532.0
110°	782.3	651.5	603.0	572.1	544.5	523.6	503.5
120°	803.4	664.0	608.7	576.9	547.7	522.3	487.6
135°	879.4	718.2	632.7	595.7	566.3	538.1	492.7
150°	1016.0	812.0	691.4	626.0	593.8	566.7	517.6
Run VMG	1173.2	936.4	793.6	697.3	634.8	600.8	549.1
Selected Courses							
Windward / Leeward	1258.3	1031.0	897.2	807.2	755.6	733.2	713.5
Circular Random	1071.2	865.2	754.4	690.0	650.8	626.3	598.4
Coastal / Long Distance	1249.8	967.1	809.0	711.6	660.2	625.3	569.6
Non Spinnaker	1139.3	913.7	790.7	718.3	673.7	645.6	613.7

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	43.1°	42.0°	42.0°	40.9°	39.8°	39.8°	40.9°
Beat VMG	2.68	3.20	3.60	3.93	4.11	4.16	4.10
52°	4.10	4.85	5.38	5.67	5.83	5.91	5.91
60°	4.33	5.12	5.57	5.81	5.98	6.09	6.13
75°	4.50	5.30	5.71	5.95	6.14	6.31	6.52
90°	4.49	5.41	5.88	6.15	6.30	6.41	6.77
110°	4.60	5.53	5.97	6.29	6.61	6.88	7.15
120°	4.48	5.42	5.91	6.24	6.57	6.89	7.38
135°	4.09	5.01	5.69	6.04	6.36	6.69	7.31
150°	3.54	4.43	5.21	5.75	6.06	6.35	6.96
Run VMG	3.07	3.84	4.54	5.16	5.67	5.99	6.56
Gybe Angles	148.5°	152.0°	153.0°	170.0°	180.0°	180.0°	180.0°