

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number
Issued On **5/28/2020**
ORC Ref **03580000J30**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 561kg
Maximum **550kg**
Minimum* **413kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **703.2 0.8532**
Non Spin OSN **679.1 0.8835**

Sails Limitations

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

Spinnaker configuration

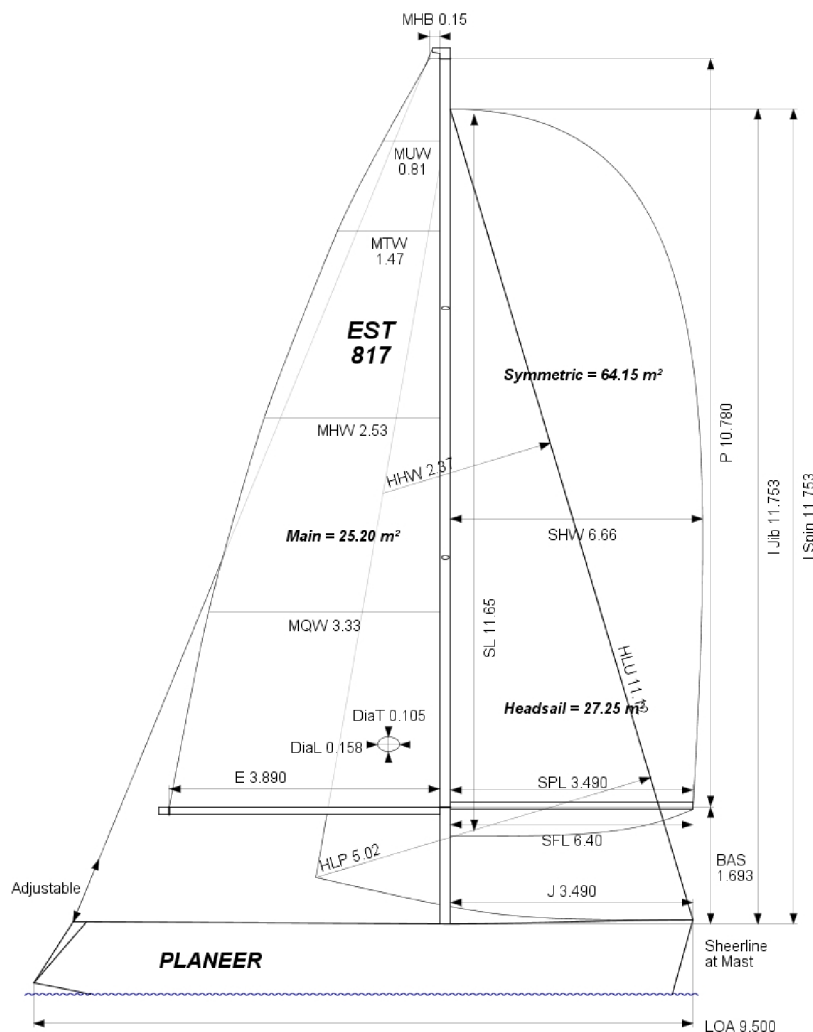
Symmetric: **Yes 64.15**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8.169**

Stability (Estimated)

Limit Positive Stab.: **115.8°**
Stability Index: **114.4**



BOAT			GPH			HULL		
Name PLANEER			671.5			Data File Est0817 LOA 9.500m		
Sail Nr EST 817						Offset File IFRST317.OFF MB 3.234m		
						Displacement 3,887kg Draft 1.944m		
CLASS						IMS Division Cruiser/Racer Dynamic All. 0.304%		
Class FIRST 31.7LR						Plan Review Construction Solid		
Designer						Fiber Rigging No Aramid Core No		
Builder Beneteau						Crew Arm Ex Carbon Rudder No		
Series 09/1998						Light Stanchions No		
Age Date 01/2008						IMSL 8.740m VCGD 0.062m Sink 15.00kg/mm		
Age Allowance 0.487%						RL 7.597m VCGM 0.050m WS 20.05m		
COMMENTS						LSM0 8.660m Displacement/Length ratio		
						Water Ballast Trim Tab No		
						BLR Index 0.0000		
PROPELLER						CENTERBOARD		
Installation Strut PRD 0.405						N/A		
Type Folding 2 blades PIPA 0.0030								
SCORING OPTIONS								
			COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance			650.2			723.7		
Time on Time			0.9228			0.9327		
Triple Number			Low	Medium	High	Low	Medium	High
Time on Distance			779.9	591.9	523.6	1008.8	729.1	626.2
Time on Time			0.8655	1.1403	1.2891	0.6691	0.9258	1.0780

BOAT										INCLINING TEST AND FREEBOARDS									
Name PLANEER					Sail Nr EST 817					Inclining Test Club Estimated VCG									
File Est0817					Data in meters/kilograms					Flotation date 25/05/2020 SG									
RIG Forestay Tension Aft Spreaders 2 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 1.062 SFFP 0.413 FAM FA 1.036 SAFP 8.737					LCF from stem on CL / on sheer 5.059 / 5.280 Maximum beam station from stem 6.085 RM Measured 75.8kg·m RM Default 73.5kg·m Limit of positive stability / Stab.Index 115.8° / 114.4 Freeboard at mast at 3.490 1.004									
P 10.780 E 3.890 MDT1 0.105 MW 0.158 IG 11.753 J 3.490 MDL1 0.158 GO 0.178 ISP 11.753 SFJ MDT2 0.105 BD 0.111 BAS 1.693 SPL 3.490 MDL2 0.158 MWT FSD 0.031 TPS TL MCG					PROPELLER Installation Strut PRD 0.405 Type Folding 2 blades PBW Twin Screw No PIPA 0.0030 ST1 0.043 ST3 0.174 ST5 0.290 ST2 0.174 ST4 0.097 EDL 2.512														
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	0.15	0.81	1.47	2.53	3.33	25.20													
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
3	0.07	0.62	1.17	2.37	3.69	5.02	11.12	144%	27.25		No								
1	0.04	0.60	1.13	2.28	3.50	4.74	11.30	136%	26.35		No								
2	0.06	0.44	0.83	1.65	2.52	3.42	11.35	98%	19.15		No								
SYMMETRIC SPINNAKERS (3)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
2	11.65	11.65	11.65	6.66	6.40	64.16													
2	11.70	11.70	11.70	6.28	6.20	61.08													
1	10.70	10.70	10.70	6.25	6.25	55.73													
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							



2020 Measurements Datasheet

Certificate

Number
ORC Ref **03580000J30**
Issued On **5/28/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

2020

ORC Club Certificate Appendix

BOAT			
Name	PLANEER	Certificate Number	
Sail Nr	EST 817	Issued On	5/28/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1151.0	950.8	836.2	766.1	739.4	729.8	733.6
52°	749.9	630.6	567.1	537.7	524.3	519.4	517.7
60°	708.5	599.3	548.8	525.0	511.5	504.9	501.5
75°	679.8	577.2	535.5	514.2	498.0	484.8	472.4
90°	688.7	579.4	527.3	504.0	493.1	476.4	448.5
110°	690.8	568.6	520.3	493.4	468.7	448.2	426.8
120°	712.3	583.2	526.4	498.1	472.0	446.9	406.2
135°	787.7	639.0	553.3	516.0	490.6	464.9	416.6
150°	936.5	738.1	621.0	549.7	516.3	492.6	445.9
Run VMG	1081.4	852.3	716.5	626.3	565.6	526.5	479.7
Selected Courses							
Windward / Leeward	1116.1	901.6	776.4	696.2	652.5	628.1	606.6
Circular Random	933.5	750.1	650.9	592.8	557.2	534.4	507.2
Coastal / Long Distance	1112.7	846.3	698.9	610.1	566.7	534.3	482.5
Non Spinnaker	989.9	790.1	680.8	616.2	576.4	550.9	520.7

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	42.8°	41.3°	40.9°	39.4°	38.3°	38.6°	39.4°
Beat VMG	3.13	3.79	4.31	4.70	4.87	4.93	4.91
52°	4.80	5.71	6.35	6.70	6.87	6.93	6.95
60°	5.08	6.01	6.56	6.86	7.04	7.13	7.18
75°	5.30	6.24	6.72	7.00	7.23	7.43	7.62
90°	5.23	6.21	6.83	7.14	7.30	7.56	8.03
110°	5.21	6.33	6.92	7.30	7.68	8.03	8.44
120°	5.05	6.17	6.84	7.23	7.63	8.05	8.86
135°	4.57	5.63	6.51	6.98	7.34	7.74	8.64
150°	3.84	4.88	5.80	6.55	6.97	7.31	8.07
Run VMG	3.33	4.22	5.02	5.75	6.37	6.84	7.51
Gybe Angles	146.0°	150.0°	151.0°	157.0°	180.0°	180.0°	180.0°