



ORC
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **113/20**
Issued On **07/07/2020**
ORC Ref **03880000M62**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **1,072kg**
Maximum **1,000kg**
Minimum* **750kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	583.8	1.0277
Non Spin OSN	568.5	1.0555

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 195.35**
Asymmetric: **Yes 183.37**
Flying H/S: **No**
Spin. Pole: **Yes**

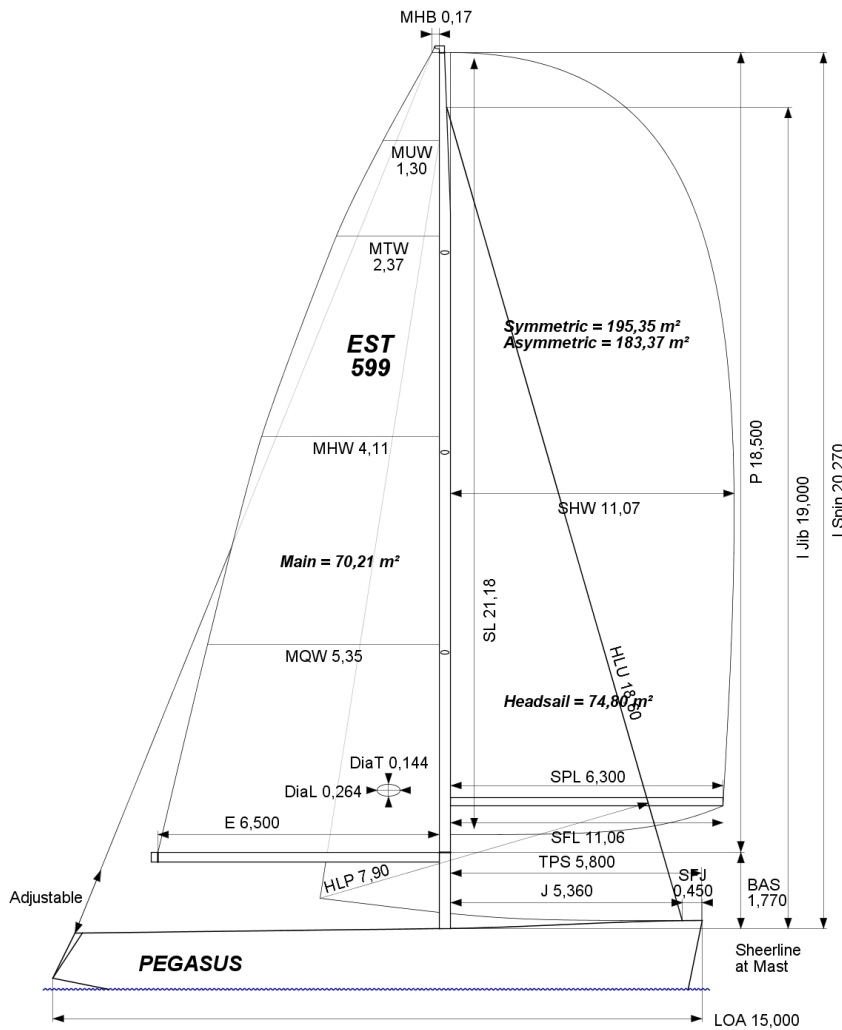
Class Division Length

CDL = 12.194

Stability (Estimated)

Limit Positive Stab.: **126.0°**
Stability Index: **135.3**

Owner



BOAT	GPH	HULL
Name PEGASUS Sail Nr EST 599	552.3	Data File EST599 LOA 15.000m Offset File F_50SK.OFF MB 4.374m Displacement 14,745kg Draft 2.425m
CLASS Class First 50 (SK) Designer Philippe Briand Builder Beneteau Series 09/2006 Age Date 06/2008 Age Allowance 0.455%	IMS Division Cruiser/Racer Dynamic All. 0.154% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions	IMS L 13.669m VCGD -0.100m Sink 34.17kg/mm RL 10.719m VCGM -0.125m WS 47.39m² LSM0 13.641m Displacement/Length ratio 5.8091
COMMENTS	Water Ballast 0 Trim Tab No BLR Index 0.0000	CENTERBOARD N/A
PROPELLER Installation Strut PRD 0.460 Type Folding 2 blades PIPA 0.0040		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	537.2	603.0
Time on Time	1.1169	1.1195
Triple Number	Low Medium High	Low Medium High
Time on Distance	639.9 487.3 432.9	832.1 607.2 521.9
Time on Time	1.0549 1.3853 1.5592	0.8112 1.1116 1.2933

2020

ORC Club Certificate Appendix

BOAT	
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Sail Nr	EST 599
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	954.8	782.9	689.8	645.0	623.0	611.9	604.7
52°	616.9	514.7	460.0	438.4	429.9	425.5	422.2
60°	578.1	487.2	443.1	425.3	417.4	413.2	409.5
75°	547.7	466.8	431.5	415.0	404.4	397.2	389.9
90°	550.5	467.4	429.9	411.8	399.0	388.0	369.9
110°	570.4	467.6	422.8	402.6	387.2	377.1	359.8
120°	584.8	478.1	427.6	404.4	386.1	369.0	344.5
135°	647.3	521.5	449.8	417.3	397.6	378.7	340.9
150°	765.8	611.8	514.2	452.1	420.1	401.1	365.4
Run VMG	884.2	706.5	593.8	519.7	474.0	438.7	396.9
Selected Courses							
Windward / Leeward	919.5	744.7	641.8	582.3	548.5	525.3	500.8
Circular Random	766.0	616.1	535.4	488.6	459.9	441.4	418.8
Coastal / Long Distance	916.0	698.0	575.5	504.9	468.5	441.0	399.2
Non Spinnaker	822.1	656.2	565.4	511.5	478.0	456.0	429.1

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	44.3°	42.8°	42.0°	41.3°	40.5°	39.8°	39.4°
Beat VMG	3.77	4.60	5.22	5.58	5.78	5.88	5.95
52°	5.84	6.99	7.83	8.21	8.37	8.46	8.53
60°	6.23	7.39	8.12	8.46	8.62	8.71	8.79
75°	6.57	7.71	8.34	8.67	8.90	9.06	9.23
90°	6.54	7.70	8.37	8.74	9.02	9.28	9.73
110°	6.31	7.70	8.52	8.94	9.30	9.55	10.01
120°	6.16	7.53	8.42	8.90	9.32	9.76	10.45
135°	5.56	6.90	8.00	8.63	9.06	9.51	10.56
150°	4.70	5.88	7.00	7.96	8.57	8.98	9.85
Run VMG	4.07	5.10	6.06	6.93	7.60	8.21	9.07
Gybe Angles	142.0°	147.0°	147.5°	153.0°	159.0°	180.0°	180.0°