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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6201**
Issued On **22/09/2020**
ORC Ref **03410000QR2**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 998kg
Maximum **998kg**
Minimum* **749kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	513.9	1.1675
Non Spin OSN	505.2	1.1876

Sails Limitations

Headsails 7 Spinnakers 5

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 212.94**
Flying H/S: **No**
Spin. Pole: **No**

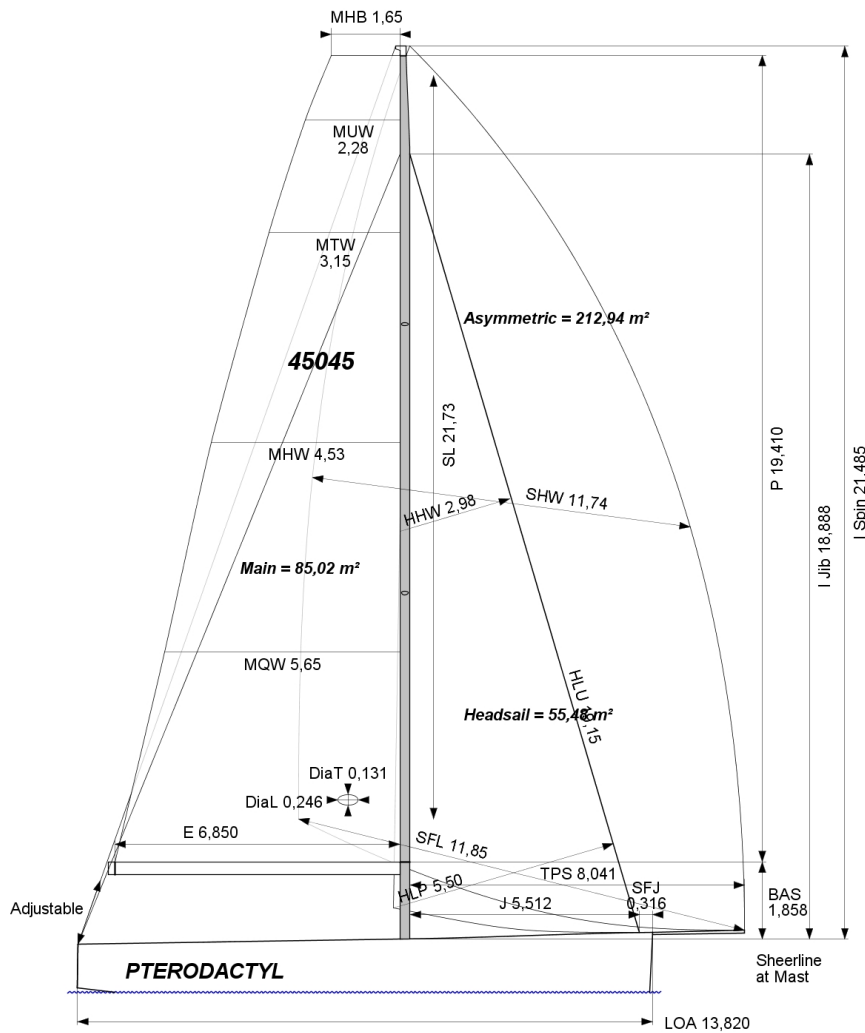
Class Division Length

CDL = 13.000

Stability (Measured)

Limit Positive Stab.: **145.8°**
Stability Index: **143.4**

Owner



BOAT	GPH	HULL
Name PTERODACTYL Sail Nr 45045	481.8	Data File US6201 LOA 13.820m Offset File 174-0K08- MB 4.102m Displacement 5,859kg Draft 3.366m
CLASS Class R/P 45 Designer R/P Builder HAKES Series 01/2006 Age Date 01/2006 Age Allowance 0.455%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Carbon Fiber Rigging Yes Aramid Core Yes Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 13.274m VCGD -1.008m Sink 25.55kg/mm RL 12.733m VCGM -0.982m WS 35.10m² LSM0 12.976m Displacement/Length ratio 2.6816
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	470.8	531.7
Time on Time	1.2745	1.2696
Triple Number	Low Medium High	Low Medium High
Time on Distance	542.9 432.1 373.8	703.0 539.5 459.0
Time on Time	1.2434 1.5620 1.8059	0.9602 1.2512 1.4705

2020

ORC Club Certificate Appendix

BOAT			
Name	PTERODACTYL	Certificate Number	US6201
Sail Nr	45045	Issued On	22/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	801.7	670.0	616.9	591.8	572.3	557.5	550.3
52°	519.9	443.7	422.1	412.0	406.0	395.5	387.3
60°	485.2	425.5	406.6	395.7	388.3	378.7	366.1
75°	457.2	411.6	385.4	368.9	358.6	351.7	332.2
90°	453.8	411.4	379.2	351.9	335.1	324.3	310.2
110°	482.4	415.0	385.6	360.5	337.4	310.1	272.7
120°	492.5	418.1	377.1	351.3	330.2	306.2	270.6
135°	541.1	437.7	396.1	356.1	318.1	288.6	253.2
150°	649.8	510.9	439.9	396.8	363.8	326.9	260.9
Run VMG	750.4	590.0	507.9	460.9	420.0	377.5	301.2
Selected Courses							
Windward / Leeward	776.0	630.0	562.4	526.4	496.1	467.5	425.8
Circular Random	656.3	534.2	468.8	429.4	402.5	382.1	351.0
Coastal / Long Distance	773.5	592.3	506.4	453.4	417.8	383.9	332.4
Non Spinnaker	711.1	574.0	499.2	453.8	423.4	401.3	369.5

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	43.5°	42.4°	40.5°	39.4°	38.3°	37.5°	37.5°
Beat VMG	4.49	5.37	5.84	6.08	6.29	6.46	6.54
52°	6.92	8.11	8.53	8.74	8.87	9.10	9.29
60°	7.42	8.46	8.85	9.10	9.27	9.51	9.83
75°	7.87	8.75	9.34	9.76	10.04	10.24	10.84
90°	7.93	8.75	9.49	10.23	10.74	11.10	11.61
110°	7.46	8.68	9.34	9.99	10.67	11.61	13.20
120°	7.31	8.61	9.55	10.25	10.90	11.76	13.30
135°	6.65	8.23	9.09	10.11	11.32	12.47	14.22
150°	5.54	7.05	8.18	9.07	9.90	11.01	13.80
Run VMG	4.80	6.10	7.09	7.81	8.57	9.54	11.95
Gybe Angles	141.0°	143.0°	149.5°	152.5°	149.0°	146.8°	145.0°