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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6201**
Issued On **30/09/2020**
ORC Ref **03410000R7Q**
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	514.1	1.1671
Non Spin OSN	505.5	1.1870

Sails Limitations

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

Asymmetric on centerline

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

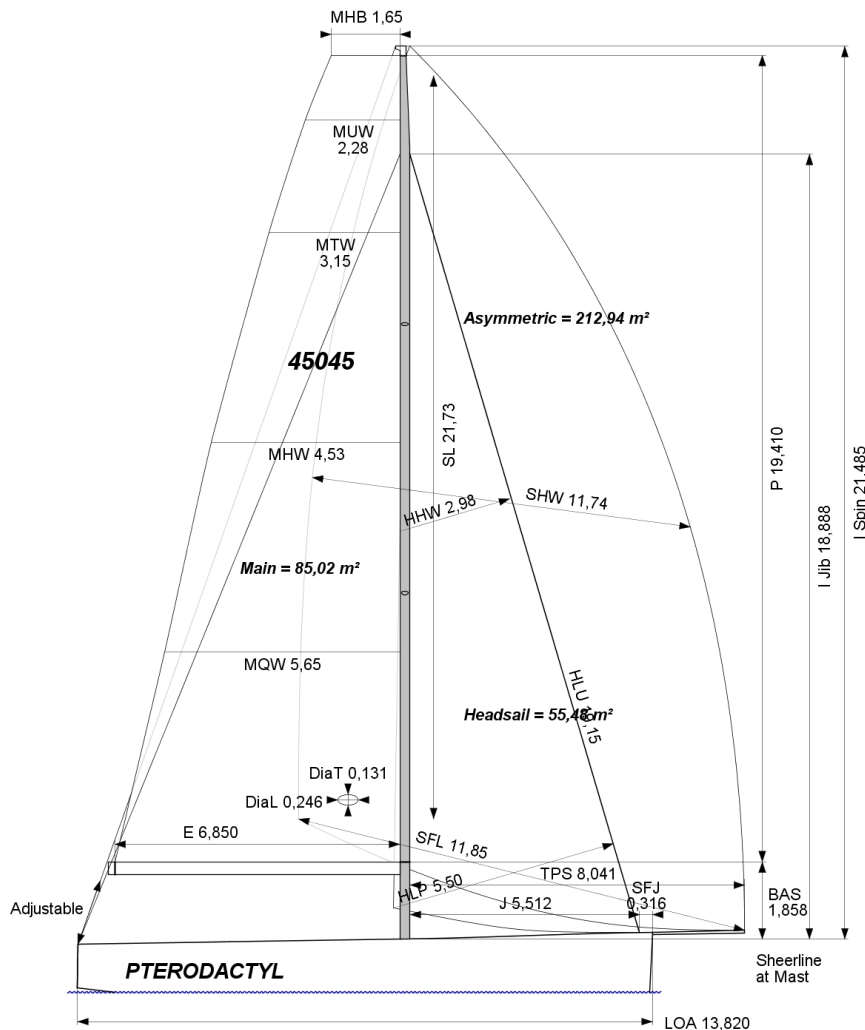
Class Division Length

CDL = 12.994

Stability (Measured)

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

Owner



BOAT	GPH	HULL
Name PTERODACTYL Sail Nr 45045	482.0	Data File US6201 LOA 13.820m Offset File pterodactyl2020. MB 4.102m Displacement 5,860kg 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 12.721m VCGM -0.983m WS 35.18m² LSM0 12.976m Displacement/Length ratio 2.6821
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	470.9	531.9
Time on Time	1.2740	1.2691
Triple Number	Low Medium High	Low Medium High
Time on Distance	543.2 432.3 373.9	703.6 539.7 459.2
Time on Time	1.2426 1.5615 1.8055	0.9594 1.2507 1.4701

2020

ORC Club Certificate Appendix

BOAT			
Name	PTERODACTYL	Certificate Number	US6201
Sail Nr	45045	Issued On	30/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	802.4	670.5	617.3	592.0	572.5	557.7	550.5
52°	520.3	443.9	422.2	412.1	406.1	395.6	387.4
60°	485.6	425.6	406.7	395.8	388.4	378.8	366.1
75°	457.5	411.7	385.4	369.0	358.6	351.8	332.3
90°	454.0	411.5	379.3	352.0	335.1	324.3	310.2
110°	482.7	415.0	385.7	360.6	337.4	310.1	272.7
120°	492.8	418.2	377.1	351.3	330.3	306.2	270.7
135°	541.5	437.8	396.2	356.2	318.2	288.6	253.2
150°	650.4	511.2	440.0	396.9	363.8	327.0	260.9
Run VMG	751.0	590.3	508.1	461.0	420.1	377.5	301.3
Selected Courses							
Windward / Leeward	776.7	630.4	562.7	526.5	496.3	467.6	425.9
Circular Random	656.7	534.4	469.0	429.5	402.6	382.2	351.1
Coastal / Long Distance	774.1	592.6	506.6	453.6	417.9	384.0	332.5
Non Spinnaker	711.6	574.3	499.4	453.9	423.5	401.4	369.6

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	5.83	6.08	6.29	6.46	6.54
52°	6.92	8.11	8.53	8.74	8.87	9.10	9.29
60°	7.41	8.46	8.85	9.10	9.27	9.50	9.83
75°	7.87	8.74	9.34	9.76	10.04	10.23	10.83
90°	7.93	8.75	9.49	10.23	10.74	11.10	11.60
110°	7.46	8.67	9.33	9.98	10.67	11.61	13.20
120°	7.31	8.61	9.55	10.25	10.90	11.76	13.30
135°	6.65	8.22	9.09	10.11	11.31	12.47	14.22
150°	5.54	7.04	8.18	9.07	9.90	11.01	13.80
Run VMG	4.79	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°