



ORC

Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number
Issued On **30/05/2020**
ORC Ref **04140000J94**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 1,276kg
Maximum **1,276kg**
Minimum* **957kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	402.7	1.4899
Non Spin OSN	401.7	1.4938

Sails Limitations

Headsails **8** Spinnakers **6**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 300.59**
Flying H/S: **No**
Spin. Pole: **No**

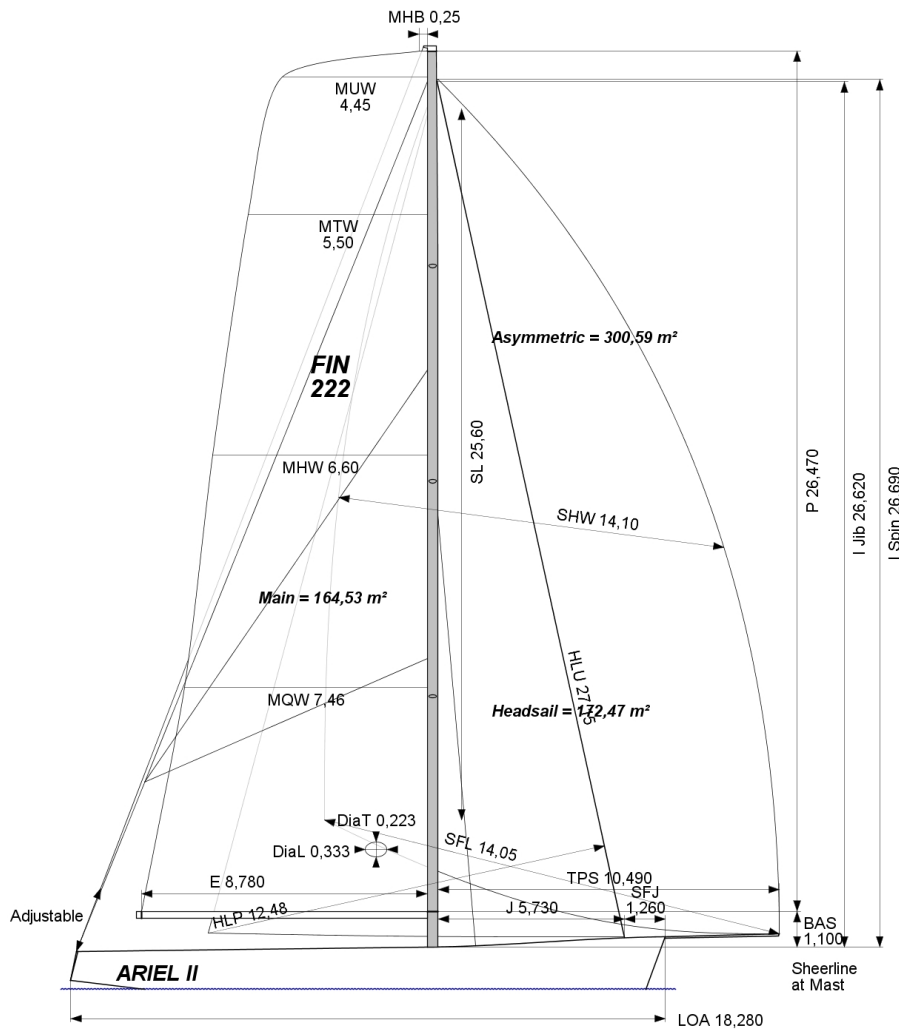
Class Division Length

CDL = 17.579

Stability (Estimated)

Limit Positive Stab.: **148.7°**
Stability Index: **148.2**

Owner



BOAT	GPH	HULL
Name Ariel II Sail Nr FIN222	393.8	Data File FIN222 LOA 18.280m Offset File austria_one.off MB 5.106m Displacement 8,500kg Draft 4.368m
CLASS Class IMOCA 60 Designer Owen Clarke Design Builder Hakes Marine Series 06/1995 Age Date 01/2007 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 16.407m VCGD -2.432m Sink 37.21kg/mm RL 18.748m VCGM -2.301m WS 47.24m² LSM0 15.418m Displacement/Length ratio 2.3192
PROPELLER Installation Shaft exposed PRD 0.450 Type Feathering 3 blades PBW 0.150 PIPA 0.0080		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	389.4	447.1
Time on Time	1.5406	1.5096
Triple Number	Low Medium High	Low Medium High
Time on Distance	442.3 354.9 303.9	583.7 454.9 383.4
Time on Time	1.5260 1.9022 2.2214	1.1564 1.4839 1.7605

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	
Name	Ariel II	Issued On	30/05/2020
Sail Nr	FIN222		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	614.1	542.2	505.9	487.7	479.9	473.6	460.4
52°	402.1	370.4	352.5	340.2	332.8	329.1	314.8
60°	380.4	353.2	334.2	322.2	314.7	309.8	296.7
75°	358.5	328.8	310.9	297.8	287.8	280.3	270.9
90°	347.6	314.1	293.7	278.4	265.1	254.0	239.2
110°	364.5	321.6	287.0	263.1	244.2	229.4	210.2
120°	384.6	344.5	307.4	272.4	243.3	223.2	197.4
135°	477.4	380.8	335.7	295.5	259.4	234.4	199.6
150°	573.8	446.9	385.4	346.6	307.1	269.2	211.2
Run VMG	662.5	516.0	445.0	400.2	354.6	310.8	243.8
Selected Courses							
Windward / Leeward	638.3	529.1	475.5	443.9	417.2	392.2	352.1
Circular Random	532.9	436.2	383.8	351.4	328.7	311.0	283.6
Coastal / Long Distance	640.7	496.3	424.2	375.3	341.1	310.9	262.9
Non Spinnaker	539.8	444.4	393.0	361.0	338.3	320.2	290.3

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°	40.5°	38.3°	36.8°	36.4°	36.0°	36.0°
Beat VMG	5.86	6.64	7.12	7.38	7.50	7.60	7.82
52°	8.95	9.72	10.21	10.58	10.82	10.94	11.44
60°	9.46	10.19	10.77	11.17	11.44	11.62	12.13
75°	10.04	10.95	11.58	12.09	12.51	12.84	13.29
90°	10.36	11.46	12.26	12.93	13.58	14.17	15.05
110°	9.88	11.19	12.54	13.68	14.74	15.69	17.12
120°	9.36	10.45	11.71	13.22	14.80	16.13	18.24
135°	7.54	9.45	10.72	12.18	13.88	15.36	18.03
150°	6.27	8.06	9.34	10.39	11.72	13.37	17.05
Run VMG	5.43	6.98	8.09	9.00	10.15	11.58	14.77
Gybe Angles	140.9°	142.5°	148.0°	147.0°	142.3°	142.0°	144.5°