



ORC
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **007/20**
Issued On **08/06/2020**
ORC Ref **03880000K48**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 675kg
Maximum **765kg**
Minimum* **574kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	634.3	0.9459
Non Spin OSN	616.6	0.9731

Sails Limitations

Headsails **5** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** 111.38
Asymmetric: **Yes** 129.28
Flying H/S: **No**
Spin. Pole: **Yes**

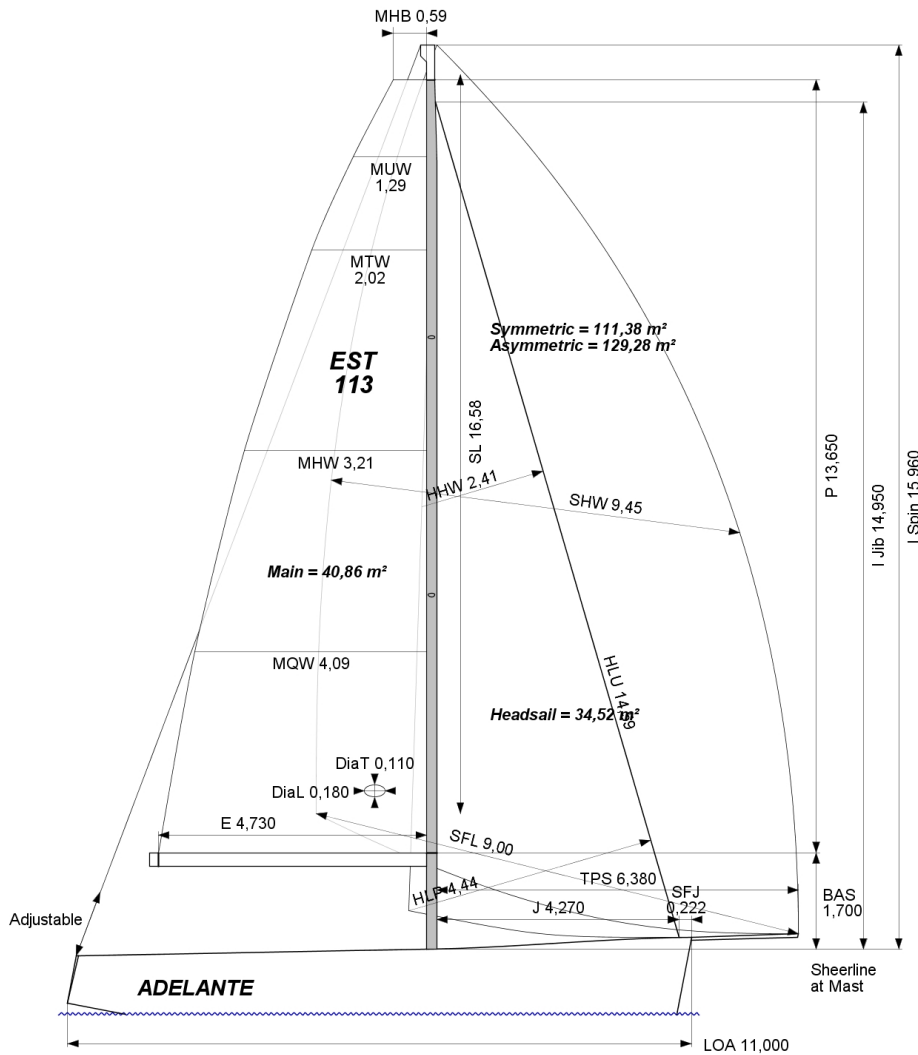
Class Division Length

CDL = 9.556

Stability (Estimated)

Limit Positive Stab.: **115.7°**
Stability Index: **115.0**

Owner



BOAT	GPH	HULL
Name Adelante Sail Nr EST-113	594.1	Data File EST113 LOA 11.000m Offset File J112E NK.off MB 3.596m Displacement 5,180kg Draft 2.044m
CLASS Class J-112E Designer JOHNSTONE Builder J-BOATS Series 10/2015 Age Date 05/2020 Age Allowance 0.163%		IMS Division Cruiser/Racer Dynamic All. 0.101% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS 5180		IMSL 10.043m VCGD 0.098m Sink 18.80kg/mm RL 9.085m VCGM 0.059m WS 25.57m² LSMO 9.859m Displacement/Length ratio 5.4054
PROPELLER Installation Strut PRD 0.425 Type Folding 2 blades PBW 0.100 PIPA 0.0031		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	578.8	648.5
Time on Time	1.0367	1.0408
Triple Number	Low Medium High	Low Medium High
Time on Distance	674.3 527.8 473.3	872.7 649.0 571.1
Time on Time	1.0010 1.2788 1.4261	0.7735 1.0400 1.1820

2020

ORC Club Certificate Appendix

BOAT	
Name Adelante	Certificate Number 007/20
Sail Nr EST-113	Issued On 08/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1015.2	834.2	736.2	700.6	687.2	681.6	669.1
52°	659.9	553.8	506.0	489.7	483.8	481.0	473.6
60°	620.6	529.6	492.2	476.5	469.9	466.4	459.8
75°	592.0	512.9	481.9	463.5	450.1	442.3	436.0
90°	594.3	503.2	478.0	460.3	441.8	425.4	405.5
110°	581.6	493.4	460.3	437.6	423.1	410.1	386.3
120°	595.3	499.6	463.2	434.0	408.3	391.4	364.4
135°	667.9	537.0	481.9	452.2	422.9	394.9	335.9
150°	790.3	631.0	534.2	486.1	460.2	434.1	380.5
Run VMG	912.5	728.6	616.8	554.1	507.1	474.0	424.6
Selected Courses							
Windward / Leeward	963.8	781.4	676.5	627.4	597.2	577.8	546.9
Circular Random	812.5	658.2	576.6	530.0	501.3	481.8	453.9
Coastal / Long Distance	958.7	733.3	612.1	548.8	513.1	484.2	434.6
Non Spinnaker	885.7	709.6	614.5	559.0	524.7	501.8	471.3

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	43.1°	41.8°	40.5°	39.4°	39.0°	38.8°	39.0°
Beat VMG	3.55	4.32	4.89	5.14	5.24	5.28	5.38
52°	5.46	6.50	7.11	7.35	7.44	7.48	7.60
60°	5.80	6.80	7.31	7.55	7.66	7.72	7.83
75°	6.08	7.02	7.47	7.77	8.00	8.14	8.26
90°	6.06	7.15	7.53	7.82	8.15	8.46	8.88
110°	6.19	7.30	7.82	8.23	8.51	8.78	9.32
120°	6.05	7.21	7.77	8.29	8.82	9.20	9.88
135°	5.39	6.70	7.47	7.96	8.51	9.12	10.72
150°	4.56	5.71	6.74	7.41	7.82	8.29	9.46
Run VMG	3.95	4.94	5.84	6.50	7.10	7.59	8.48
Gybe Angles	144.0°	147.0°	148.5°	157.0°	174.0°	180.0°	180.0°