



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **096/20**
Issued On **02/07/2020**
ORC Ref **03880000LSI**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 610kg
Maximum **640kg**
Minimum* **480kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	657.6	0.9124
Non Spin OSN	638.8	0.9392

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** 88.84
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

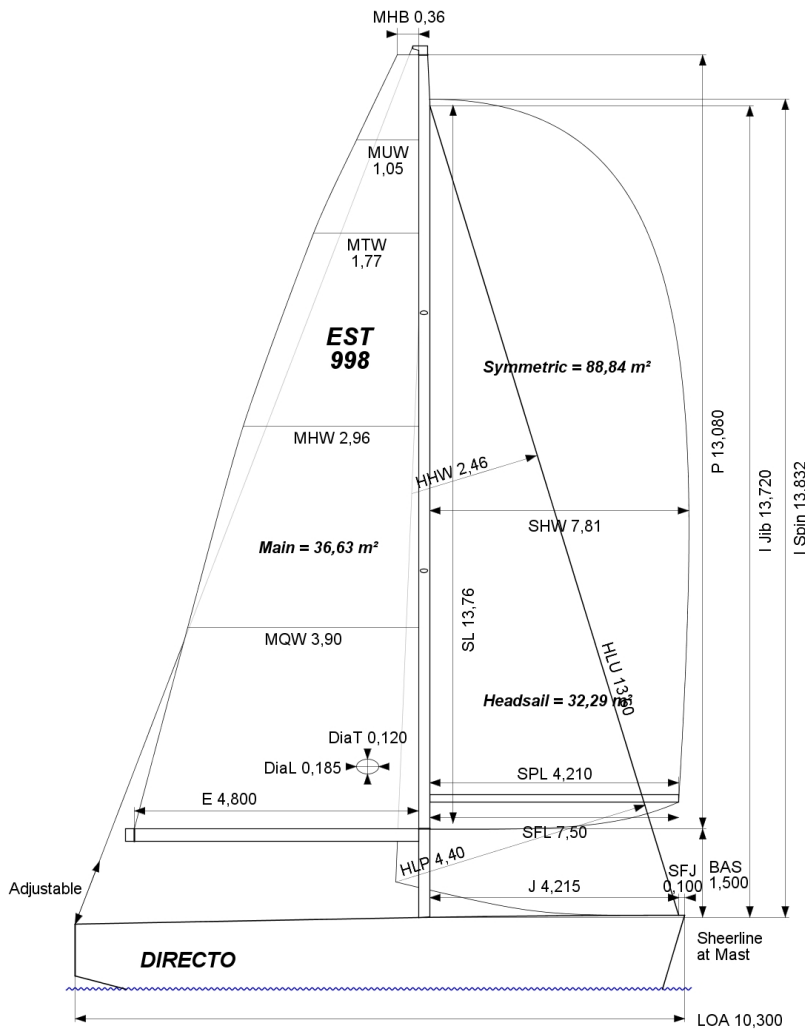
Class Division Length

CDL = 8.856

Stability (Measured)

Limit Positive Stab.: **117.5°**
Stability Index: **114.9**

Owner



BOAT	GPH	HULL
Name DIRECTO Sail Nr EST 998	624.9	Data File EST998 LOA 10.300m Offset File IY998mp.off MB 3.536m Displacement 4,691kg Draft 1.908m
CLASS Class ITALIA 9.98 Designer POLLI Builder ITALIA YACHTS Series 09/2014 Age Date 10/2016 Age Allowance 0.195%		IMS Division Cruiser/Racer Dynamic All. 0.088% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.451m VCGD 0.102m Sink 17.85kg/mm RL 8.281m VCGM 0.091m WS 23.70m² LSM0 9.183m Displacement/Length ratio 6.0578
PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW 0.100 PIPA 0.0039		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	608.1	681.5
Time on Time	0.9866	0.9904
Triple Number	Low Medium High	Low Medium High
Time on Distance	715.3 553.5 494.7	926.7 683.2 598.1
Time on Time	0.9436 1.2195 1.3646	0.7284 0.9880 1.1285

2020

ORC Club Certificate Appendix

BOAT	
Name	DIRECTO
Sail Nr	EST 998
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1063.9	879.8	777.8	733.8	719.3	715.0	707.2
52°	689.9	581.3	528.0	506.1	498.7	495.6	491.5
60°	648.4	553.3	511.9	492.7	483.6	479.6	476.3
75°	618.0	533.6	500.2	480.4	464.8	454.2	447.1
90°	625.3	533.7	494.5	477.5	458.7	440.8	417.3
110°	630.6	524.9	485.2	457.8	434.4	421.3	400.0
120°	648.1	534.4	489.9	461.4	434.0	409.7	379.6
135°	715.6	580.2	511.6	479.9	452.8	426.5	375.8
150°	851.2	675.6	569.5	510.3	481.0	456.0	408.3
Run VMG	982.8	780.1	657.6	579.9	527.3	492.6	444.3
Selected Courses							
Windward / Leeward	1023.4	830.0	717.7	656.8	623.3	603.8	575.7
Circular Random	859.4	694.4	606.3	555.5	524.4	504.0	476.9
Coastal / Long Distance	1019.3	778.8	647.3	574.5	535.8	504.6	453.4
Non Spinnaker	917.8	735.7	637.1	579.6	544.3	521.3	492.2

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°	42.0°	41.3°	40.1°	40.5°	40.5°	40.9°
Beat VMG	3.38	4.09	4.63	4.91	5.00	5.04	5.09
52°	5.22	6.19	6.82	7.11	7.22	7.26	7.32
60°	5.55	6.51	7.03	7.31	7.44	7.51	7.56
75°	5.83	6.75	7.20	7.49	7.75	7.93	8.05
90°	5.76	6.75	7.28	7.54	7.85	8.17	8.63
110°	5.71	6.86	7.42	7.86	8.29	8.54	9.00
120°	5.55	6.74	7.35	7.80	8.29	8.79	9.48
135°	5.03	6.21	7.04	7.50	7.95	8.44	9.58
150°	4.23	5.33	6.32	7.05	7.48	7.89	8.82
Run VMG	3.66	4.61	5.47	6.21	6.83	7.31	8.10
Gybe Angles	145.0°	149.0°	150.0°	157.0°	180.0°	180.0°	179.8°