



World Leader in Rating Technology

2019 (Test) ORC Club One Design Certificate

Rating Office

Certificate

Number **ASS099**
Issued On **15/01/2019**
ORC Ref **N/A**
VPP Ver. **2019 1.01**

Invalid for Racing

Crew Weight

Default 499kg
Maximum **520kg**
Minimum* **390kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **573.1 1.0469**
Non Spin OSN **559.4 1.0726**

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 52.25**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.675

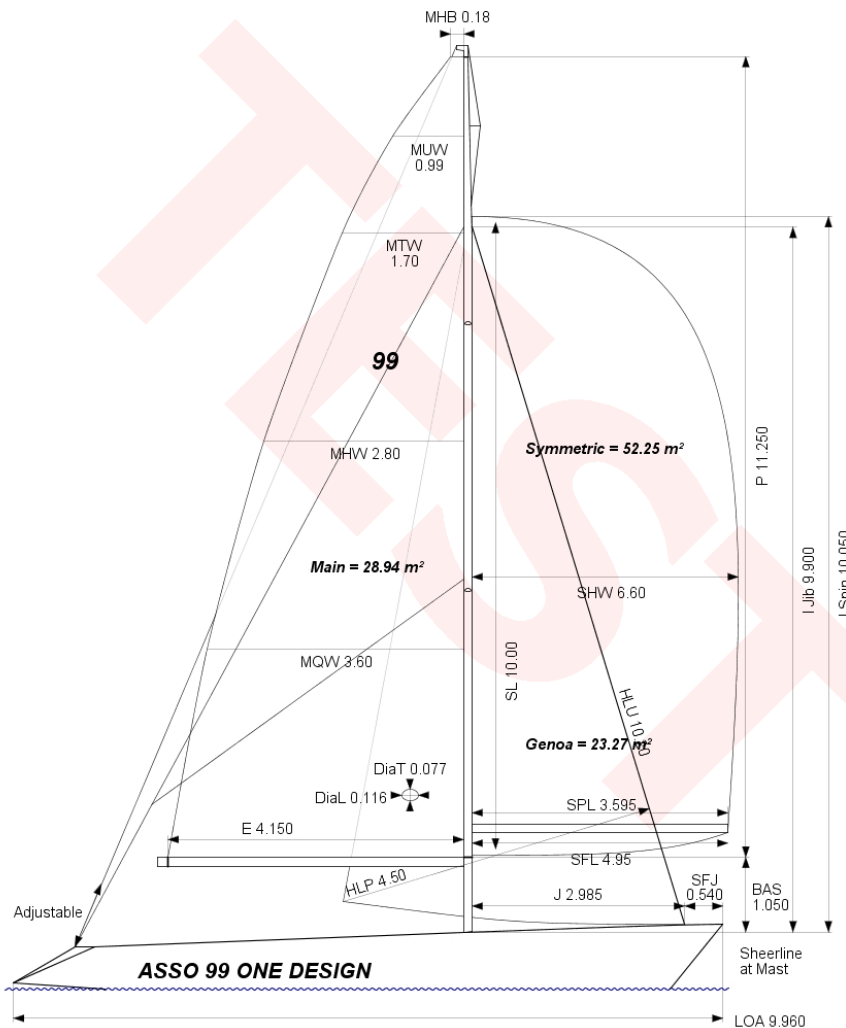
Stability (Estimated)

Limit Positive Stab.: **104.0°**
Stability Index: **96.5**

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL	
Name ASSO 99 ONE DESIGN		547.8		Data File	asso99 LOA 9.960m
Sail Nr 99-				Offset File	asso99.od MB 2.922m
				Displacement	1,168kg Draft 1.726m
CLASS				IMS Division	Performance Dynamic All. 0.000%
Class ASSO 99				Fwd Accom.	No Construction Cored
Designer SANTARELLI				Fiber Rigging	No Aramid Core No
Builder SANTARELLI				Crew Arm Ex	0.92 Carbon Rudder No
Series 06/1982					Light Stanchions No
Age Date 03/1985				IMSL	8.812m VCGD -0.100m Sink 10.10kg/mm
Age Allowance 0.487%				RL	10.535m VCGM -0.046m WS 12.69m
COMMENTS				LSM0	7.983m Displacement/Length ratio 2.2959
CALCULATED ASSUMING 3 CREWS ON TRAPE AND 2 ON STRAPS NOT IN COMPLIANCE WITH CAT.4				Water Ballast	0 Trim Tab No
				BLR Index	0.0000
PROPELLER				CENTERBOARD	
Type No Propeller				N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	533.0			615.8		
Time on Time	1.1258			1.0961		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	635.5	486.8	409.1	825.8	622.8	528.5
Time on Time	1.0622	1.3866	1.6499	0.8174	1.0838	1.2773



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ORC Club Certificate Appendix

BOAT			
Name	ASSO 99 ONE DESIGN	Certificate Number	ASS099
Sail Nr	99-	Issued On	15/01/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	889.5	729.5	670.6	650.6	641.2	638.5	630.7
52°	576.2	504.4	468.6	451.6	441.4	434.9	419.8
60°	544.3	486.4	445.8	425.9	414.1	405.7	387.0
75°	526.0	467.7	420.6	388.5	372.3	361.5	345.3
90°	529.5	472.4	415.4	368.4	340.5	323.9	304.2
110°	574.8	488.9	424.4	371.5	339.1	312.8	256.7
120°	598.3	500.7	439.7	376.8	331.3	298.6	256.2
135°	674.8	539.2	481.7	428.2	372.5	324.7	246.4
150°	816.4	642.1	545.9	486.4	437.8	389.0	290.7
Run VMG	942.7	741.4	630.4	557.6	505.4	449.2	335.6
Selected Courses							
Windward / Leeward	916.1	735.5	650.5	604.1	573.3	543.8	483.2
Circular Random	761.6	613.8	532.3	481.7	446.6	419.4	375.5
Coastal / Long Distance	918.8	693.5	582.4	509.0	462.1	420.4	347.3
Non Spinnaker	804.4	644.6	556.1	501.5	464.5	436.7	394.2

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	43.7°	40.5°	37.2°	35.9°	35.8°	35.9°	36.7°
Beat VMG	4.05	4.93	5.37	5.53	5.61	5.64	5.71
52°	6.25	7.14	7.68	7.97	8.16	8.28	8.58
60°	6.61	7.40	8.08	8.45	8.69	8.87	9.30
75°	6.84	7.70	8.56	9.27	9.67	9.96	10.43
90°	6.80	7.62	8.67	9.77	10.57	11.11	11.84
110°	6.26	7.36	8.48	9.69	10.62	11.51	14.02
120°	6.02	7.19	8.19	9.55	10.87	12.06	14.05
135°	5.33	6.68	7.47	8.41	9.66	11.09	14.61
150°	4.41	5.61	6.59	7.40	8.22	9.25	12.39
Run VMG	3.82	4.86	5.71	6.46	7.12	8.02	10.73
Gybe Angles	139.9°	139.7°	149.0°	156.3°	153.6°	146.0°	138.4°