

BOAT Name SOLING Sail Nr SO-	GPH 703.8	HULL Length Overall 8.180m Maximum Beam 1.904m Displacement 1.037kg Draft 1.302m IMS Reg. Division Sportboat Dynamic Allowance 0.183% Fwd Accommodation No Hull Construction Solid Carbon Rudder No Crew Arm Extension 0.50
GENERAL Class SOLING OD Designer Jan Linge Builder Series 01/1969 Age 01/1987 Age Allowance 0.487% Offset File soling.od - 13/01/2019 18:36:06 Measurement by CLASS RULES -		IMSL 6.666m VCGD -0.184m Sink 6.84kg/mm RL 6.676m VCGM -0.136m WS 9.89m² LSMO 6.057m Displacement/Length ratio 4.6667



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Rating Office

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	681.2			762.8		
Time on Time	0.8808			0.8849		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	814.8	621.3	544.8	1059.3	763.4	661.9
Time on Time	0.8284	1.0864	1.2389	0.6372	0.8842	1.0198

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1238.8	1005.7	875.8	817.2	802.4	797.0	781.3
52°	806.4	661.5	606.6	583.2	575.0	570.9	559.2
60°	759.7	632.6	590.6	566.9	555.2	549.3	537.1
75°	728.3	616.8	576.8	548.8	525.2	513.2	504.3
90°	696.5	593.7	560.5	542.2	513.4	487.3	460.2
110°	690.3	586.0	539.6	502.7	480.3	462.2	430.4
120°	719.7	596.3	547.5	502.3	463.0	435.7	399.3
135°	819.5	649.5	575.4	532.2	490.1	447.4	352.5
150°	967.3	758.8	635.0	572.8	533.3	494.9	410.4
Run VMG	1116.9	876.2	732.3	643.3	586.0	548.5	477.6

Certificate Number SOLING ORC Ref N/A Issued On 11/04/2019 VPP Ver. 2019 1.01 Invalid for Racing

Crew Weight Default 337kg Maximum 300kg Minimum* 215kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring
ToD ToT
Double H.GPH 725.7 0.8268
Double H.OSN 706.7 0.8490
Non Spin GPH 747.6 0.8026
Non Spin OSN 721.6 0.8315

Selected Courses							
Windward / Leeward	1177.8	940.9	804.1	730.3	694.2	672.8	629.5
Circular Random	978.3	785.9	682.4	621.6	583.2	556.3	516.6
Coastal / Long Distance	1171.8	881.8	727.3	642.2	596.2	558.6	493.1
Non Spinnaker	1057.1	841.1	723.4	654.2	611.1	582.0	541.5

Sails Limitations
Headsails 5 Spinnakers 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	43.5°	42.6°	40.4°	38.1°	37.6°	37.4°	37.2°
Beat VMG	2.91	3.58	4.11	4.41	4.49	4.52	4.61
52°	4.46	5.44	5.94	6.17	6.26	6.31	6.44
60°	4.74	5.69	6.10	6.35	6.48	6.55	6.70
75°	4.94	5.84	6.24	6.56	6.85	7.01	7.14
90°	5.17	6.06	6.42	6.64	7.01	7.39	7.82
110°	5.22	6.14	6.67	7.16	7.50	7.79	8.36
120°	5.00	6.04	6.58	7.17	7.77	8.26	9.02
135°	4.39	5.54	6.26	6.76	7.35	8.05	10.21
150°	3.72	4.74	5.67	6.28	6.75	7.27	8.77
Run VMG	3.22	4.11	4.92	5.60	6.14	6.56	7.54
Gybe Angles	145.5°	149.1°	150.8°	162.1°	180.0°	180.0°	180.0°

Class Division Length CDL = 6.672
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Storm Sails Areas
Heavy Weather Jib 7.61
Storm Jib (JL=4.88) 2.82
Storm Trysail 4.76

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

BOAT	
Name SOLING	Sail Nr SO-
File soling	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 8.500	E 3.200
IG 7.505	J 2.650
ISP 7.565	SFJ 0.490
BAS 0.705	SPL 2.615
FSP 0.000	TPS
MDT1 0.070	MW 0.110
MDL1 0.110	GO 0.110
MDT2 0.040	BD 0.075
MDL2 0.050	MWT
TL 2.200	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 15/10/1990		SG 1.0000	
FFM 0.700	FF 0.718	SFFP 0.478	
FAM 0.500	FA 0.509	SAFP 7.985	
W1 3.5	PD1 51.0	WD 7.100	
W2 7.0	PD2 103.0	GSA 12.6	
W3 10.5	PD3 152.0	RSA 8824.0	
W4 14.0	PD4 203.0	PLM 1977.0	
LCF from stem on CL / on sheer		4.378 / 4.477	
Maximum beam station from stem		4.410	
RM Measured		16.9kg·m	
RM Default		15.7kg·m	
Limit of positive stability / Stab.Index		112.9° / 111.4	
Freeboard at mast at 3.140		0.595	



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2019
IMS Measurement
Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate	
Number SOLING	
ORC Ref N/A	
Issued On 11/04/2019	
VPP Ver. 2019 1.01	
Invalid for Racing	

COMMENTS	
SAILS AND TRIM BASED ON CLASS RULES	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.120	0.64	1.16	2.01	2.69	15.98	16.32	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	7.50	7.50	7.50	5.88	5.58	36.38		SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

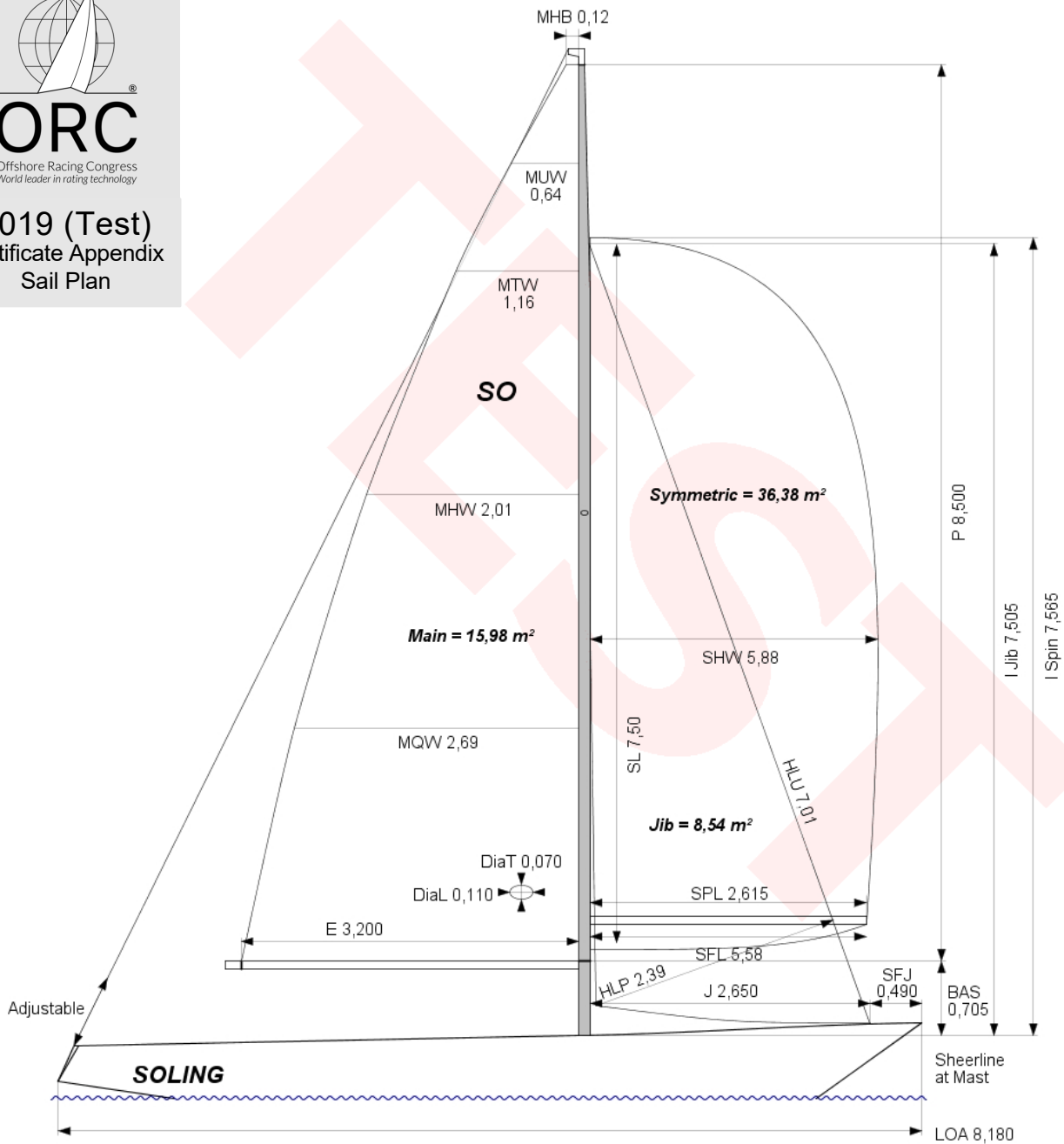
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.04					2.39	7.01	8.51					* Copied from legacy *



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**2019 (Test)
Certificate Appendix
Sail Plan**



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.12	0.64	1.16	2.01	2.69	15.98					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.04					2.39	7.01	90%	8.51							* Copied from legacy *

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
large	7.50	7.50	7.50	5.88	5.58	36.38				Unknown	
small	7.50	7.50	7.50	5.00	5.16	31.45				Unknown	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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