

BOAT Name Hope Sail Nr ROU 998	GPH 621.5	HULL Length Overall 10.300m Maximum Beam 3.536m Displacement 4,435kg Draft 1.891m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.084% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Italia 9.98 Designer Poli Builder Italia Yachts Series 09/2014 Age 03/2017 Age Allowance 0.098% Offset File IY998MP.OFF - 04/11/2015 14:00:04 Measurement by A.Panait - 16/05/2017		IMSL 9.310m VCGD 0.036m Sink 17.66kg/mm RL 8.198m VCGM 0.041m WS 23.32m² LSMO 8.989m Displacement/Length ratio 6.1060



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	605.4			684.0		
Time On Time	0.9911			0.9869		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	710.2	551.1	491.1	923.3	687.4	602.5
Time on Time	0.9504	1.2248	1.3746	0.7311	0.9819	1.1204

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1082.1	893.6	791.0	737.5	714.0	703.5	695.0
52°	700.4	585.9	528.2	503.2	493.9	489.3	484.2
60°	655.5	553.4	509.4	488.2	476.8	471.0	466.4
75°	618.9	529.9	495.9	473.9	454.3	441.2	432.5
90°	615.9	518.1	484.4	470.9	450.8	430.5	403.1
110°	610.2	513.0	475.7	445.3	428.2	415.5	391.7
120°	628.3	523.0	482.7	451.6	421.7	398.5	372.0
135°	701.2	567.0	504.0	473.2	444.1	416.6	359.0
150°	828.1	659.0	559.4	509.0	483.9	463.0	413.9
Run VMG	956.2	761.0	645.9	587.2	551.8	509.3	461.5

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Number **012/17**
ORC Ref **ROU00076109**
Issued On **18/05/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **600kg**
Default* **591kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	658.6	0.9110
Non Spin OSN	639.3	0.9385

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1019.1	827.3	718.4	662.3	632.9	606.4	578.2
Circular Random	854.4	690.4	603.0	552.6	521.3	500.4	472.2
Ocean for PCS	1048.5	811.2	677.6	595.7	541.7	503.1	447.9
Non Spinnaker	924.2	739.1	638.0	578.1	540.4	515.4	484.3

Sails Limitations

Headsails	Spinnakers
5	3

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.9°	42.8°	42.3°	41.6°	40.7°	40.2°	40.4°
Beat VMG	3.33	4.03	4.55	4.88	5.04	5.12	5.18
52°	5.14	6.14	6.82	7.15	7.29	7.36	7.43
60°	5.49	6.51	7.07	7.37	7.55	7.64	7.72
75°	5.82	6.79	7.26	7.60	7.92	8.16	8.32
90°	5.85	6.95	7.43	7.64	7.99	8.36	8.93
110°	5.90	7.02	7.57	8.08	8.41	8.66	9.19
120°	5.73	6.88	7.46	7.97	8.54	9.03	9.68
135°	5.13	6.35	7.14	7.61	8.11	8.64	10.03
150°	4.35	5.46	6.44	7.07	7.44	7.78	8.70
Run VMG	3.77	4.73	5.57	6.13	6.52	7.07	7.80
Gybe Angles	144.4°	147.9°	148.6°	150.5°	174.3°	177.1°	177.5°

Class Division Length

CDL = **8.755**

Storm Sails Areas

Heavy Weather Jib **25.77**
Storm Jib (JL=8.98) **9.55**
Storm Triesail **10.95**

Owner

BOAT	
Name Hope	Sail Nr ROU 998
File ROU998	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 15/05/2017		SG 1.0080	
FFM 1.296	FF 1.301	SFFP 0.000	
FAM 0.605	FA 0.609	SAFP 10.300	
W1 64.1	PD1 545.5	WD 11.800	
W2 64.1	PD2 545.2	GSA 1.0	
W3 64.1	PD3 545.3	RSA 1.0	
W4 64.1	PD4 545.7	PLM 9000.0	
LCF from stem on CL / on sheer		5.673 / 5.903	
Maximum beam station from stem		7.304	
RM Measured		109.2kg·m	
RM Default		112.4kg·m	
Limit of positive stability / Stab.Index		120.0° / 116.5	
Freeboard at mast at 4.320		1.236	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13.087	E 4.782	MDT1 0.120	MW 0.150
IG 13.817	J 4.220	MDL1 0.180	GO 0.150
ISP 14.819	SFJ 0.100	MDT2 0.080	BD 0.220
BAS 1.519	SPL	MDL2 0.150	MWT
FSP 0.072	TPS 5.460	TL 1.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.408		
Type Folding 2 blades	PBW 0.110		
Twin Screw No	PIPA 0.0038		
ST1 0.065	ST3 0.180	ST5 0.325	
ST2 0.180	ST4 0.110	EDL 1.290	


COMMENTS

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.385	1.10	1.87	3.16	4.07	38.18	39.10	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	15.92	13.59	14.76	8.51	8.53	104.69	AS · (SFL + 4·SHW) / 6		

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
0.10	0.64	1.18	2.25	3.33	4.39	13.22	29.69	Y	N	12/05/2017	Dacron	



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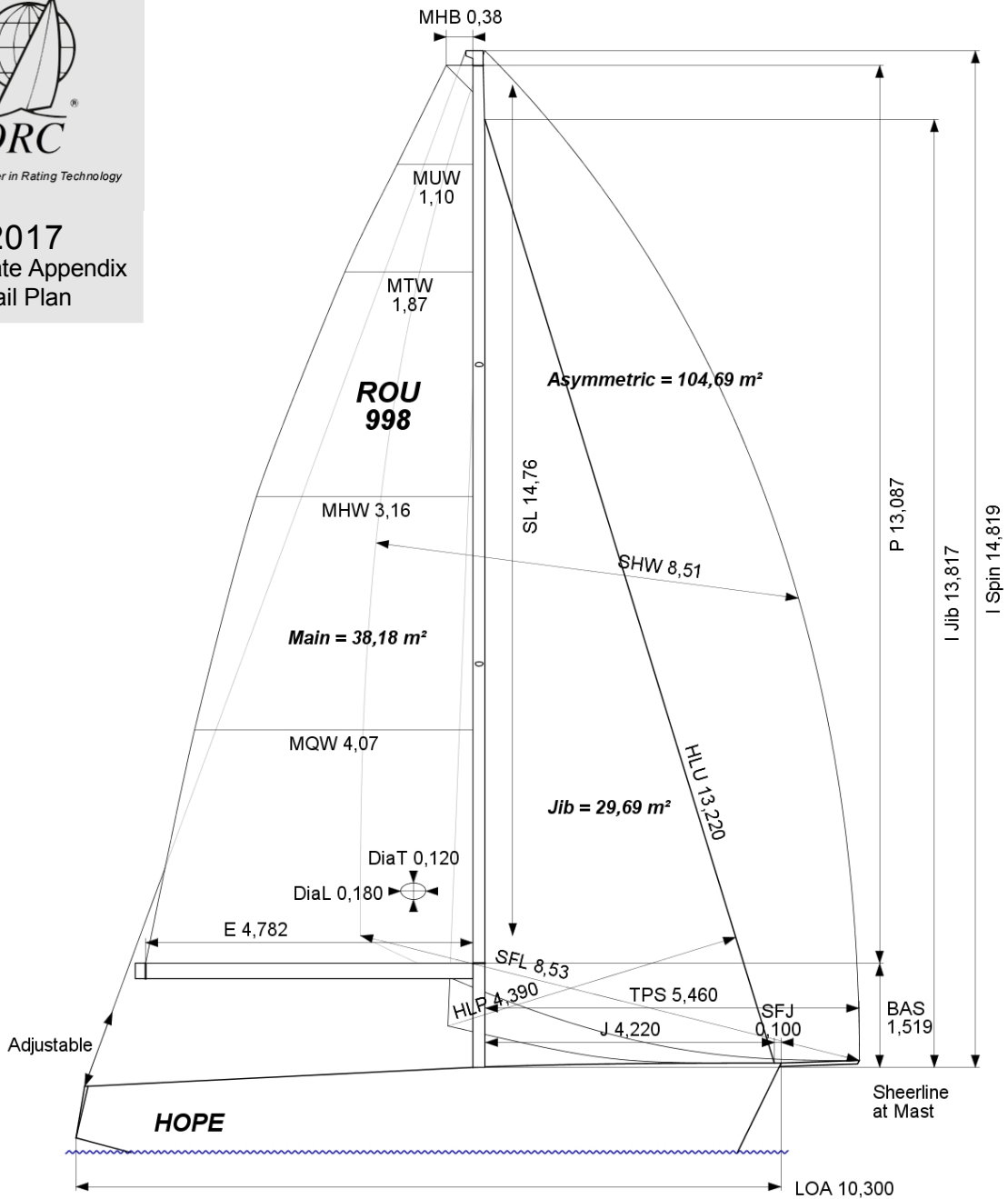


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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.385	1.10	1.87	3.16	4.07	38.18	SLO03 Gale	12/05/2017	North Sails	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	0.64	1.18	2.25	3.33	4.39	13.22	104%	29.69	Y	N	SLO03	12/05/2017	North Sails	Dacron	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A1.5	15.92	13.59	14.75	8.51	8.53	104.69	asym	SLO03 Gale	12/05/2017	North Sails	Nylon					