

BOAT
Name ECLIPSE Sail Nr PER-42

GPH
619.7

HULL					
Length Overall	12.360 m				
Maximum Beam	3.950 m				
Displacement	8,131 kg				
Draft	2.279 m				
IMS Reg. Division	Performance				
Dynamic Allowance	0.225%				
Fwd Accommodation	Yes				
Hull Construction	Solid				
Carbon Rudder	No				
Trim Tab	No				
IMS L	10.021	VCGD	0.057	VCGM	0.018
Sink	21.73 kg/mm	Wetted Area	30.85 m²		



2010
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GENERAL
Class Frers 40
Designer Frers
Builder Nicolini
Series 01/1990
Age 01/1990
Age Allowance 0.975%
Offset File eclipse.off - 23/06/2007 11:06:42 a.m.
Measurement by G Liza - 01/07/2010

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	619.7			691.6		
Time On Time	0.9683			0.9760		
Performance Line	PLT	PLD		PLT	PLD	
	0.866	114.1		1.027	303.7	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9510	1.2283	1.3816	0.7250	0.9874	1.1506

Rating Office

Roberto Peschiera
peschiera56@gmail.com
Asociación de Veleros
Oceánicos del Peru

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1029.8	851.9	762.7	717.9	690.6	674.3	672.8
52°	665.2	558.2	516.2	496.7	485.2	477.8	473.1
60°	619.5	534.6	497.0	479.1	468.8	462.0	455.9
75°	584.5	517.7	483.3	460.9	448.1	441.0	432.6
90°	589.9	512.7	474.9	455.4	444.4	430.3	417.3
110°	609.9	523.8	482.8	454.7	433.4	419.8	407.0
120°	652.5	543.5	495.1	464.4	440.3	420.6	394.5
135°	745.5	598.7	527.8	488.4	461.0	438.9	403.1
150°	890.4	705.3	590.0	528.9	491.4	464.8	424.7
Run VMG	1028.2	814.4	681.3	598.0	543.0	504.5	454.8

Certificate	
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Issued On	07/07/2010
VPP Ver.	2010 1.11
Valid until	31/03/2011

Selected Courses							
Windward / Leeward	1049.1	845.8	733.1	666.4	624.1	596.3	570.3
Circular Random	852.5	689.1	601.4	550.2	518.7	498.3	474.6
Ocean for PCS	910.6	720.6	614.8	550.2	507.8	478.2	437.9
Non Spinnaker	905.1	725.7	628.0	570.2	534.0	510.5	482.9

Crew Weight	
Declared	737 kg
Default*	737 kg
Non Manual Power	No

Special Scoring		
	ToD	ToT
Double Handed	622.8	0.9634
Non Spinnaker	647.9	0.9260
N/S Perf. Line	80.4	0.777

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	44.4°	44.8°	41.1°	39.1°	38.1°	37.9°	38.6°
Beat VMG	3.50	4.23	4.72	5.01	5.21	5.34	5.35
52°	5.41	6.45	6.97	7.25	7.42	7.53	7.61
60°	5.81	6.73	7.24	7.51	7.68	7.79	7.90
75°	6.16	6.95	7.45	7.81	8.03	8.16	8.32
90°	6.10	7.02	7.58	7.91	8.10	8.37	8.63
110°	5.90	6.87	7.46	7.92	8.31	8.58	8.85
120°	5.52	6.62	7.27	7.75	8.18	8.56	9.13
135°	4.83	6.01	6.82	7.37	7.81	8.20	8.93
150°	4.04	5.10	6.10	6.81	7.33	7.75	8.48
Run VMG	3.50	4.42	5.28	6.02	6.63	7.14	7.92
Gybe Angles	142.6°	148.2°	150.4°	162.1°	168.3°	172.7°	174.8°

Sails Limitations		
Genoa	Jibs	Spinnakers
3	2	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	37.45
Storm Jib (JL=10.83)	13.87
Storm Trysail	11.47

Owner

Giacomo Verme
Carlos Graña 310
Lima 27
Peru

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

Signature

BOAT	
Name ECLIPSE	Sail Nr PER-42
File PER42.dxt	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 3
Inner Forestay Adjustable	Runners 2
Carbon Mast No	Jumpers None
Taper Hollows No	Jib Furler No
Fiber Rigging No	w/o Backstay No

P 14.593	E 4.493	MDT1 0.130	TL 2.500
IG 16.555	J 4.930	MDL1 0.220	MWT
ISP 16.595	SFJ 0.000	MDT2 0.130	MCG
SPS 3.695	SPL 4.850	MDL2 0.170	CPW 0.000
BAS 1.755	TPS	MW 0.170	BD 0.170
BAL 0.435	FSP 0.046	GO 0.200	BWT

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/07/2010		SG 1.0260	
FFM 1.135	FF 1.135	SFFP 0.600	
FAM 1.016	FA 1.016	SAFP 10.830	
W1 100.00	PD1 564.8	WD 12.870	
W2 100.00	PD2 564.8	GSA 1.0	
W3 100.00	PD3 564.8	RSA 1.0	
W4 100.00	PD4 564.8	PLM 9000.0	
Maximum beam station from stern			7.351
RM Measured / Default			179.4 / 178.6
Limit of positive stability			111.4°
Stability Index			114.3
Freeboard at mast at 4.930			0.992

PROPELLER			
Installation Shaft	PRD 0.400		
Type Feathering 3 blades	PBW 0.120		
Twin Screw No	PIPA 0.0087		
PSA 20.000	PHL 0.181	ST3 0.170	ESL 1.120
PSD 0.032	ST1 0.025	ST4 0.057	
PHD 0.095	ST2 0.130	ST5 0.210	

WATER BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0.190	1.03	1.78	2.97	3.88	23.60	40.11	40.83	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0.00	0.94	1.87	3.75	5.62	17.37	7.49	65.05	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF							
	15.95	8.78	8.87				116.95	SL · (SF + 4·SMG) / 6		




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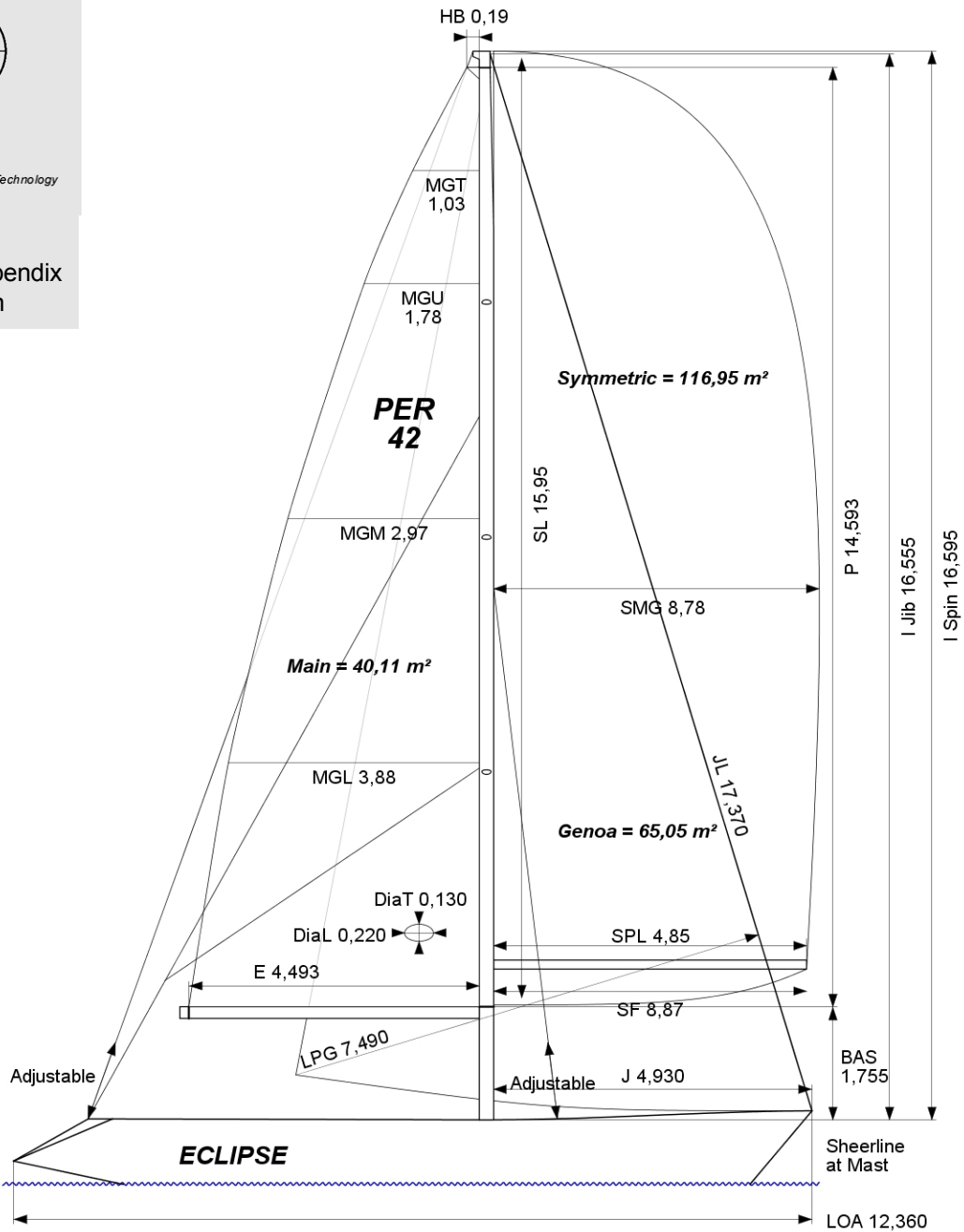


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Sail Plan



SAILS INVENTORY

MANSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.190	1.03	1.78	2.97	3.88	23.60	40.11					* Copied from legacy

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						7.49	0.00	152%	65.05					* Copied from

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	15.95	8.78	0.00	116.95					* Copied from legacy *

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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