

BOAT Name SUNSET Sail Nr ECU-111	GPH 651.9	HULL Length Overall 11.406m Maximum Beam 3.938m Displacement 7,911kg Draft 2.120m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.421% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class LEGEND37 Designer HUNTER Builder HUNTER Series 05/1987 Age 05/1987 Age Allowance 0.488% Offset File US19149.OFF - 03/07/1993 06:31:04 Measurement by F CARLIER - 03/06/2012		IMSL 10.063m VCGD -0.240m Sink 21.22kg/mm RL 7.830m VCGM 0.152m WS 29.81m² LSMO 10.128m Displacement/Length ratio 7.6148



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	Time On Distance	632.8			706.8	
Time On Time	0.9481			0.9550		
Performance Line	PLT	PLD		PLT	PLD	
	0.630	29.6		0.754	164.0	
Triple Number	Low	Medium	High	Low	Medium	High
	0.8920	1.1732	1.3308	0.6869	0.9430	1.1146

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1116.6	927.2	823.1	754.6	721.9	705.5	696.2
52°	723.8	610.8	541.9	511.3	499.1	493.4	489.0
60°	679.8	574.7	519.1	496.3	484.7	479.0	474.4
75°	644.2	545.6	503.7	483.9	470.4	460.0	449.7
90°	647.5	548.4	504.7	482.4	470.2	456.6	433.9
110°	676.3	557.0	502.6	478.0	458.0	441.2	424.9
120°	698.6	575.3	510.5	483.4	463.9	444.2	411.2
135°	774.6	632.6	543.9	501.2	478.7	459.7	421.9
150°	913.6	720.7	612.2	538.4	500.8	479.5	443.4
Run VMG	1054.9	831.9	705.2	616.4	552.5	510.1	468.4

Certificate
Number **FVEC5**
ORC Ref **ecu00001718**
Issued On **27/05/2016**
VPP Ver. **2016 1.01**
Valid until **31/03/2017**

Crew Weight
Declared **701kg**
Default* **701kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	675.2	0.8886
Non Spin OSN	654.6	0.9166
N/S Perf. Line	10.6	0.580

Selected Courses							
Windward / Leeward	1085.8	879.6	764.2	685.5	637.2	607.8	582.3
Circular Random	905.7	728.3	632.1	575.5	540.4	517.9	491.7
Ocean for PCS	1113.9	856.9	711.0	621.4	563.3	523.4	469.8
Non Spinnaker	948.1	758.1	654.1	592.3	553.8	528.8	499.1

Sails Limitations	
Headsails	Spinnakers
6	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	44.0°	42.1°	42.5°	42.2°	40.7°	39.9°	39.4°
Beat VMG	3.22	3.88	4.37	4.77	4.99	5.10	5.17
52°	4.97	5.89	6.64	7.04	7.21	7.30	7.36
60°	5.30	6.26	6.94	7.25	7.43	7.52	7.59
75°	5.59	6.60	7.15	7.44	7.65	7.83	8.00
90°	5.56	6.56	7.13	7.46	7.66	7.88	8.30
110°	5.32	6.46	7.16	7.53	7.86	8.16	8.47
120°	5.15	6.26	7.05	7.45	7.76	8.10	8.75
135°	4.65	5.69	6.62	7.18	7.52	7.83	8.53
150°	3.94	5.00	5.88	6.69	7.19	7.51	8.12
Run VMG	3.41	4.33	5.10	5.84	6.52	7.06	7.69
Gybe Angles	146.3°	151.1°	153.7°	155.8°	173.0°	180.0°	180.0°

Class Division Length
CDL = **8.947**

Storm Sails Areas
Heavy Weather Jib **29.34**
Storm Jib (JL=9.58) **10.87**
Storm Trysail **11.88**

Owner
CRISTOBAL TOLEDO
GUAYAQUIL

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

Signature

BOAT	
Name SUNSET	Sail Nr ECU-111
File ECU111.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 03/06/2012		SG 1.0253	
FFM 1.277	FF 1.285	SFFP 0.610	
FAM 1.164	FA 1.169	SAFP 10.183	
W1 75.000	PD1 544.0	WD 13.210	
W2 75.000	PD2 544.0	GSA 1000.0	
W3 75.000	PD3 544.0	RSA 1000.0	
W4 75.000	PD4 544.0	PLM 9000.0	
LCF from stem on CL / on sheer		6.381 / 6.660	
Maximum beam station from stem		7.009	
RM Measured		143.4kg·m	
RM Default		158.2kg·m	
Limit of positive stability / Stab.Index		112.1° / 114.6	
Freeboard at mast at 4.470		1.222	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	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 14.600	E 4.650	MDT1 0.144	MW 0.217
IG 14.660	J 4.120	MDL1 0.217	GO 0.240
ISP 14.700	SFJ 0.350	MDT2 0.142	BD 0.148
BAS 1.475	SPL 4.120	MDL2 0.182	MWT
FSP 0.074	TPS	TL 1.750	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.419		
Type Folding 2 blades	PBW 0.125		
Twin Screw No	PIPA 0.0077		
PSA 16.300	PHL 0.125	ST3 0.088	ESL 2.685
PSD 0.025	ST1 0.012	ST4 0.044	
PHD 0.078	ST2 0.076	ST5 0.245	


COMMENTS	
NUEVA MAYOR, GENOA Y SPI CAMBIO MEDIDAS P Y E	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.315	1.08	1.78	2.95	3.96	40.84	41.54	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.30	14.30	14.30	7.45	7.16	88.09		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
0.08	0.72	1.40	2.83	4.40	5.96	14.31	41.75			22/09/2011	Kevlar	
0.08	0.75	1.46	2.94	4.46	5.97	13.99	41.56			07/10/2014	Kevlar	NUEVA
0.09	0.70	1.38	2.83	4.35	5.93	14.31	41.44			22/09/2011	Kevlar	




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IMS Measurement Certificate

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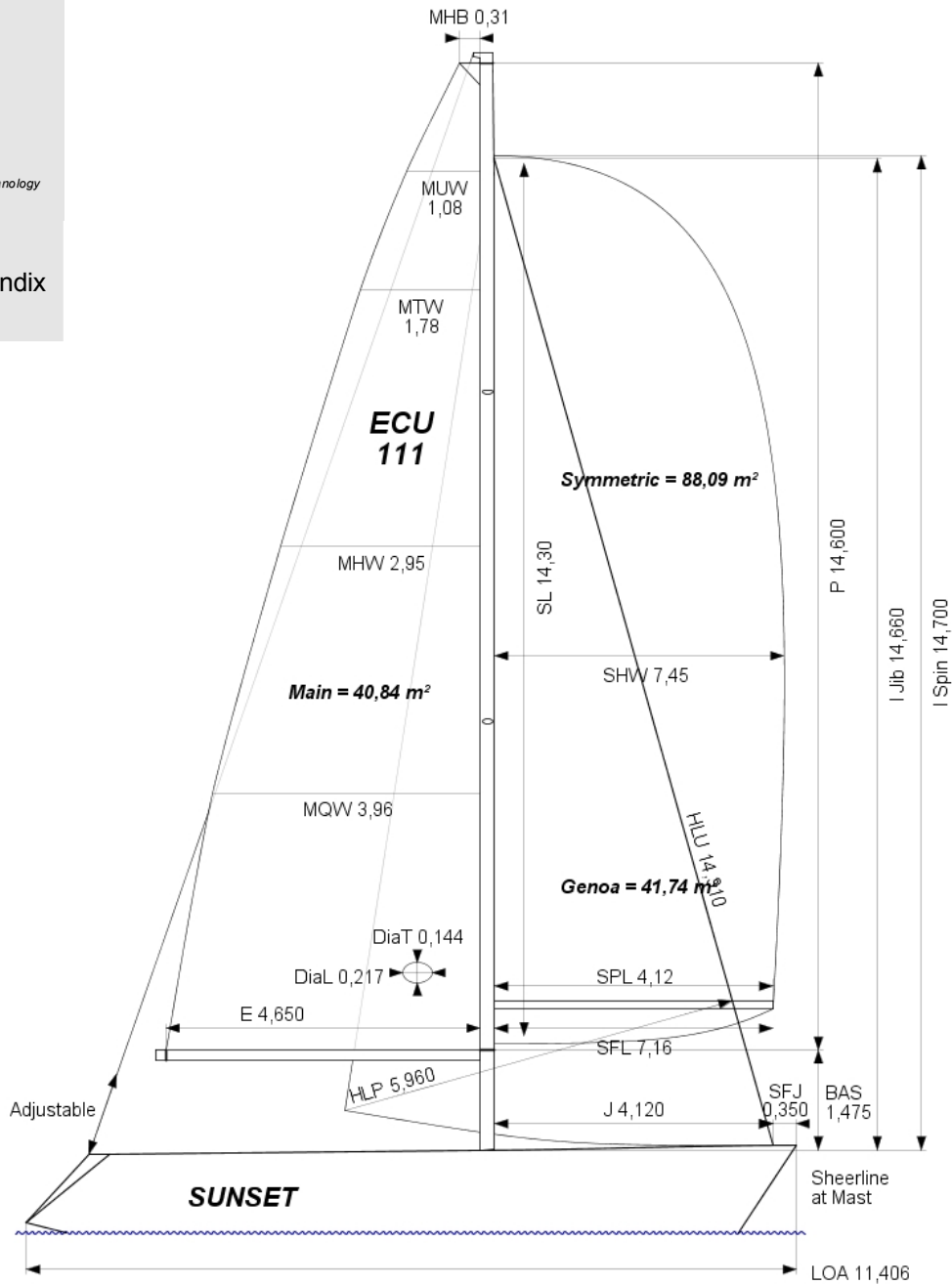
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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0.315	1.08	1.78	2.95	3.96	40.84	R PESCHIERA	03/09/2014	NORTH	Kevlar	NUEVA

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
JT	0.08	0.72	1.40	2.83	4.40	5.96	14.31	145%	41.75			PG	22/09/2011	QUANTUM	Kevlar	
LM	0.08	0.75	1.46	2.94	4.46	5.97	13.99	145%	41.56			R	07/10/2014	NORTH	Kevlar	NUEVA
K L	0.09	0.70	1.38	2.83	4.35	5.93	14.31	144%	41.44			PG	22/09/2011	QUANTUM	Kevlar	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S 2	14.30	14.30	14.30	7.45	7.16	88.09	F CARLIER	03/06/2012		Nylon	
S1.3	14.63	14.63	14.63	7.22	7.18	87.93	R PESCHIERA	07/10/2014	NORTH	Nylon	NUEVO
S 0,75	14.15	14.15	14.15	7.32	7.20	86.03	F CARLIER	03/06/2012		Nylon	

ASYMMETRIC SPINNAKERS

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