

BOAT Name MELAGODO Sail Nr SUI-180	GPH 617.9	HULL Length Overall 9.550m Maximum Beam 2.964m Displacement 2,854kg Draft 2.086m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class GRAND SURPRISE Designer JOUBERT/NIVELT Builder ARCHAMBAULT Series 06/2000 Age 01/2007 Age Allowance 0.487% Offset File H00301.OFF - 04/03/2018 12:23:18 Measurement by - 15/09/2016		IMSL 9.359m VCGD -0.095m Sink 14.88kg/mm RL 8.672m VCGM -0.060m WS 19.13m² LSMO 9.447m Displacement/Length ratio 3.3851



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	601.1			673.7		
Time on Time	0.9982			1.0020		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	701.8	549.2	488.7	906.8	674.9	592.7
Time on Time	0.9618	1.2291	1.3811	0.7444	1.0002	1.1389

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1001.8	826.3	743.8	717.1	705.9	703.0	693.3
52°	659.8	556.9	521.8	510.9	505.7	502.8	495.9
60°	624.6	538.6	509.4	496.8	490.3	486.7	479.5
75°	597.5	526.6	498.2	477.5	464.3	456.7	449.9
90°	603.9	525.7	495.6	470.3	446.3	428.3	412.5
110°	634.8	528.6	488.9	456.3	433.9	415.4	388.8
120°	655.1	538.2	494.4	458.6	424.0	396.8	365.8
135°	728.7	586.2	518.7	484.6	449.6	414.1	346.7
150°	871.3	686.7	576.9	517.9	486.2	454.1	389.1
Run VMG	1006.0	793.0	665.8	587.8	533.9	498.7	439.4

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Number **1801**
ORC Ref **03190000S1P**
Issued On **15/10/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **635kg**
Maximum **500kg**
Minimum* **375kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **645.5 0.9295**
Non Spin OSN **628.4 0.9548**

Selected Courses							
Windward / Leeward	1003.9	809.6	704.8	652.4	619.9	600.8	566.4
Circular Random	846.4	685.3	599.8	550.4	519.5	498.2	467.3
Coastal / Long Distance	1004.1	762.1	638.7	571.3	531.9	499.5	446.0
Non Spinnaker	895.9	720.3	625.9	570.8	536.2	512.5	480.0

Sails Limitations
Headsails **5** Spinnakers **4**

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	42.4°	41.3°	39.2°	38.1°	37.5°	37.5°	37.5°
Beat VMG	3.59	4.36	4.84	5.02	5.10	5.12	5.19
52°	5.46	6.46	6.90	7.05	7.12	7.16	7.26
60°	5.76	6.68	7.07	7.25	7.34	7.40	7.51
75°	6.03	6.84	7.23	7.54	7.75	7.88	8.00
90°	5.96	6.85	7.26	7.66	8.07	8.40	8.73
110°	5.67	6.81	7.36	7.89	8.30	8.67	9.26
120°	5.50	6.69	7.28	7.85	8.49	9.07	9.84
135°	4.94	6.14	6.94	7.43	8.01	8.69	10.38
150°	4.13	5.24	6.24	6.95	7.40	7.93	9.25
Run VMG	3.58	4.54	5.41	6.13	6.74	7.22	8.19
Gybe Angles	144.0°	148.0°	150.5°	157.5°	180.0°	180.0°	180.0°

Class Division Length
CDL = **9.012**

Storm Sails Areas
Heavy Weather Jib **21.26**
Storm Jib (JL=8.16) **7.88**
Storm Trysail **8.93**

Owner

BOAT	
Name MELAGODO	Sail Nr SUI-180
File SUI180	Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 2
Inner Slay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 11.910	E 4.280 MDT1 0.106 MW 0.160
IG 12.510	J 3.410 MDL1 0.160 GO 0.170
ISP 12.550	SFJ 0.140 MDT2 0.078 BD 0.150
BAS 1.345	SPL 3.880 MDL2 0.124 MWT 80.00
FSD 0.033	TPS TL 0.800 MCG 4.600

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 04/03/2016		SG 1.0260
FFM 0.970	FF 0.970	SFFP 0.230
FAM 0.688	FA 0.688	SAFP 9.178
W1 47.0	PD1 534.5	WD 9.700
W2 47.0	PD2 537.7	GSA 1.0
W3 47.0	PD3 536.8	RSA 1.0
W4 47.0	PD4 537.6	PLM 9000.0
LCF from stem on CL / on sheer		5.365 / 5.559
Maximum beam station from stem		5.905
RM Measured		66.9kg-m
RM Default		69.3kg-m
Limit of positive stability / Slab.Index		108.0° / 105.4
Freeboard at mast at 3.550		0.779



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft exposed	PRD 0.382	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0042	
PSA 16.000	PHL 0.115 ST3 0.085 ESL 0.880	
PSD 0.025	ST1 0.021 ST4 0.050	
PHD 0.069	ST2 0.080 ST5 0.165	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

COPY ONLY Invalid for Racing

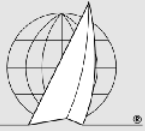
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SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area
	0.17	0.99	1.76	2.86	3.68	31.38
						32.18
	Formula					
	$P/B \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$					
Symmetric	SLU	SLE	SL	SHW	SFL	Area
	11.80	11.80	11.80	6.74	6.58	65.96
	Formula					
	$SL \cdot (SFL + 4 \cdot SHW) / 6$					
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	Flying	Meas.Date	Material	Comment
0.04	0.60	1.21	2.44	3.71	4.98	11.96	29.51	N	No	31/03/2018	Unknow	
0.06	0.52	1.00	1.88	2.72	3.51	12.06	22.15	N	No	15/09/2016	Unknow	

MEASUREMENT INVENTORY				
Measurer FIV-122				
Date 04/03/2016				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	LOMBARDINI	11 HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description
A	Tank	H2O	PVC	50.0	3.60	0.00	0-0	VUOTO
B	Tank	GASOLIO	PVC	30.0	8.00	0.00	0-0	VUOTO
Id	Item	Weight	Distance	VCG Description				
A	Battery	0.0	5.00	0.00 2X50AH				

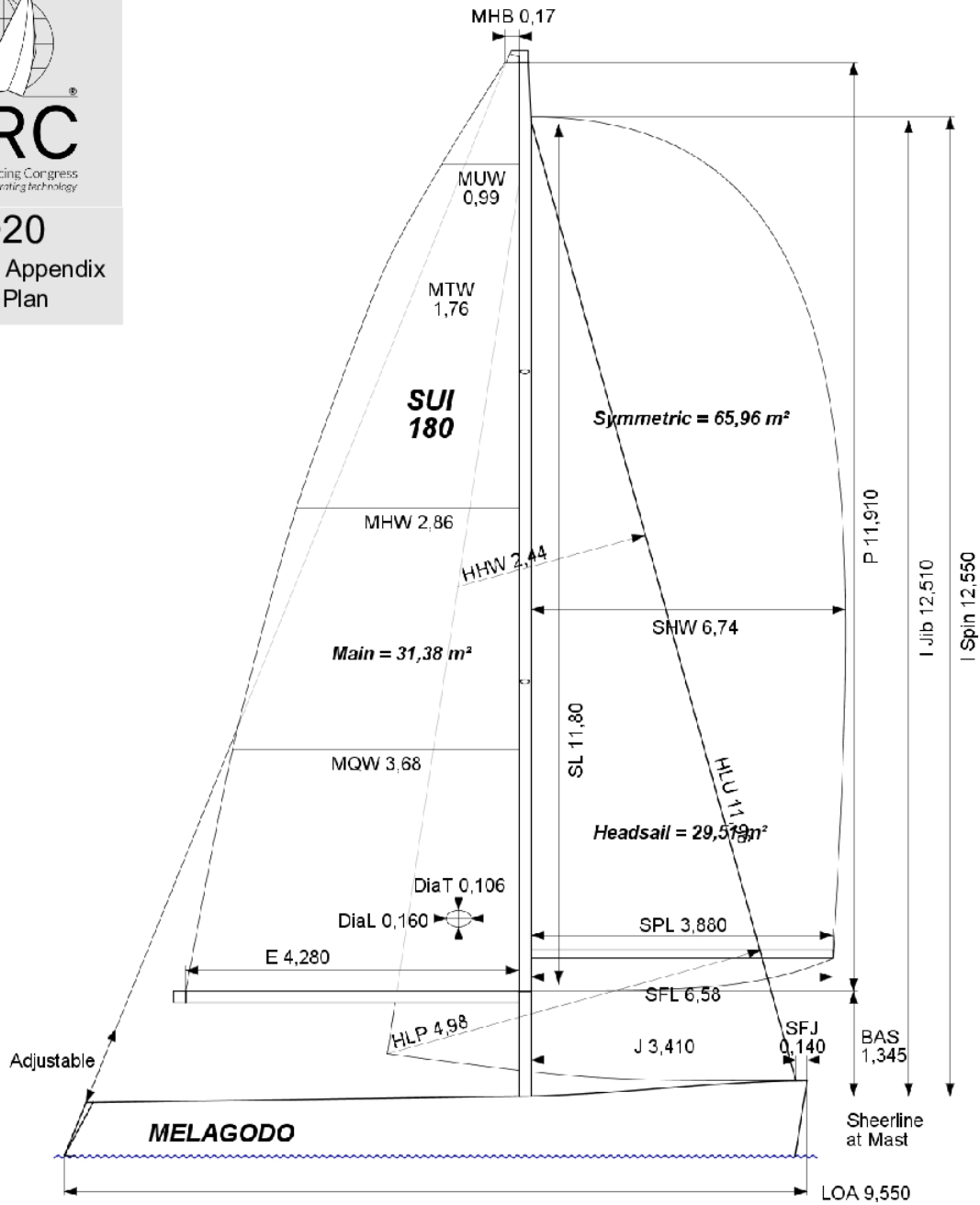


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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.17	0.99	1.76	2.86	3.68	31.38		09/04/2018		Unknown	
B	0.16	0.90	1.63	2.77	3.62	30.50		15/09/2016	SAILWEAR	Unknown	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.04	0.60	1.21	2.44	3.71	4.98	11.96	146%	29.51	N	No		31/03/2018		Unknown	
C	0.06	0.52	1.00	1.88	2.72	3.51	12.06	103%	22.15	N	No		15/09/2016	SAILWEAR	Unknown	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	11.80	11.80	11.80	6.74	6.58	65.97		15/09/2016	SAILWEAR	Unknown	

ASYMMETRIC SPINNAKERS (0)

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