

BOAT	GPH	HULL
Name MARIBEL Sail Nr ESP 4442	742.1	Length Overall 8.800m Maximum Beam 3.054m Displacement 3,380kg Draft 1.739m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.350% Fwd Accommodation No Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 7.881m VCGD 0.109m Sink 13.94kg/mm RL 5.702m VCGM 0.187m WS 18.91m² LSM0 7.759m Displacement/Length ratio 7.2360
Class KELT 8.50 Designer VATON GILLES Builder KELT MARINE Series 01/1983 Age 01/1985 Age Allowance 0.487% Offset File H147.BOF - 03/01/1994 12:54:28 Measurement by JUAN JULIA SERRA - 17/01/2011		



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2016
ORC International
Certificate

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	718.3			804.7		
Time On Time	0.8353			0.8388		
Performance Line	PLT	PLD		PLT	PLD	
	0.536	14.9		0.628	137.7	
Triple Number	Low	Medium	High	Low	Medium	High
	0.7725	1.0368	1.1836	0.5917	0.8302	0.9848

Rating Office

Offshore
Racing
Congress



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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1372.3	1120.1	983.1	884.3	833.1	817.6	813.5
52°	877.7	727.7	638.8	586.9	566.3	560.0	557.9
60°	817.8	683.5	603.9	566.5	549.0	541.6	538.3
75°	770.1	646.2	580.7	551.8	533.0	518.8	506.8
90°	749.9	616.0	559.4	539.6	529.9	515.5	485.5
110°	740.7	609.3	556.2	528.1	502.6	487.6	469.3
120°	764.9	626.2	563.6	534.4	508.5	482.6	451.3
135°	855.1	691.0	592.5	552.4	526.6	501.4	454.6
150°	1004.3	789.4	663.9	586.2	551.2	527.1	480.6
Run VMG	1159.7	910.9	764.9	665.4	597.8	558.9	511.5
Selected Courses							
Windward / Leeward	1266.0	1015.5	874.0	774.8	715.5	688.2	662.5
Circular Random	1042.7	833.2	718.7	650.9	609.4	583.1	553.0
Ocean for PCS	1281.3	980.1	808.5	702.8	634.6	588.0	525.8
Non Spinnaker	1112.2	882.6	755.4	679.2	631.9	601.8	567.5

Certificate

Number **444201**
ORC Ref **ESP00016599**
Issued On **11/03/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **320kg**
Default* **479kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **744.9** **0.8054**
Double H.OSN **721.8** **0.8313**
Non Spin GPH **780.9** **0.7683**
Non Spin OSN **751.7** **0.7982**
N/S Perf. Line **-4.4** **0.487**

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	45.1°	43.6°	43.3°	43.4°	41.7°	41.1°	41.2°
Beat VMG	2.62	3.21	3.66	4.07	4.32	4.40	4.43
52°	4.10	4.95	5.64	6.13	6.36	6.43	6.45
60°	4.40	5.27	5.96	6.35	6.56	6.65	6.69
75°	4.67	5.57	6.20	6.52	6.75	6.94	7.10
90°	4.80	5.84	6.44	6.67	6.79	6.98	7.42
110°	4.86	5.91	6.47	6.82	7.16	7.38	7.67
120°	4.71	5.75	6.39	6.74	7.08	7.46	7.98
135°	4.21	5.21	6.08	6.52	6.84	7.18	7.92
150°	3.58	4.56	5.42	6.14	6.53	6.83	7.49
Run VMG	3.10	3.95	4.71	5.41	6.02	6.44	7.04
Gybe Angles	147.6°	151.5°	152.4°	159.3°	180.0°	180.0°	180.0°

Class Division Length

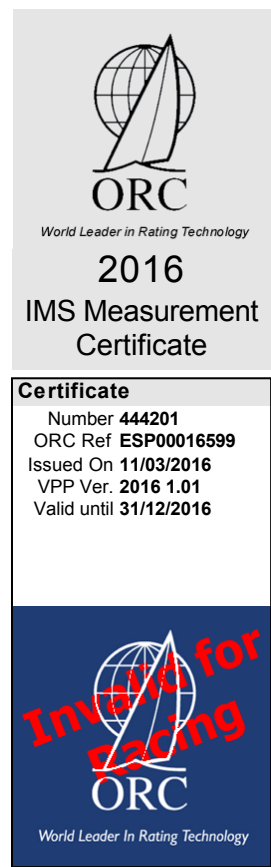
CDL = **6.792**

Storm Sails Areas

Heavy Weather Jib **15.00**
Storm Jib (JL=6.85) **5.55**
Storm Trysail **6.39**

Owner

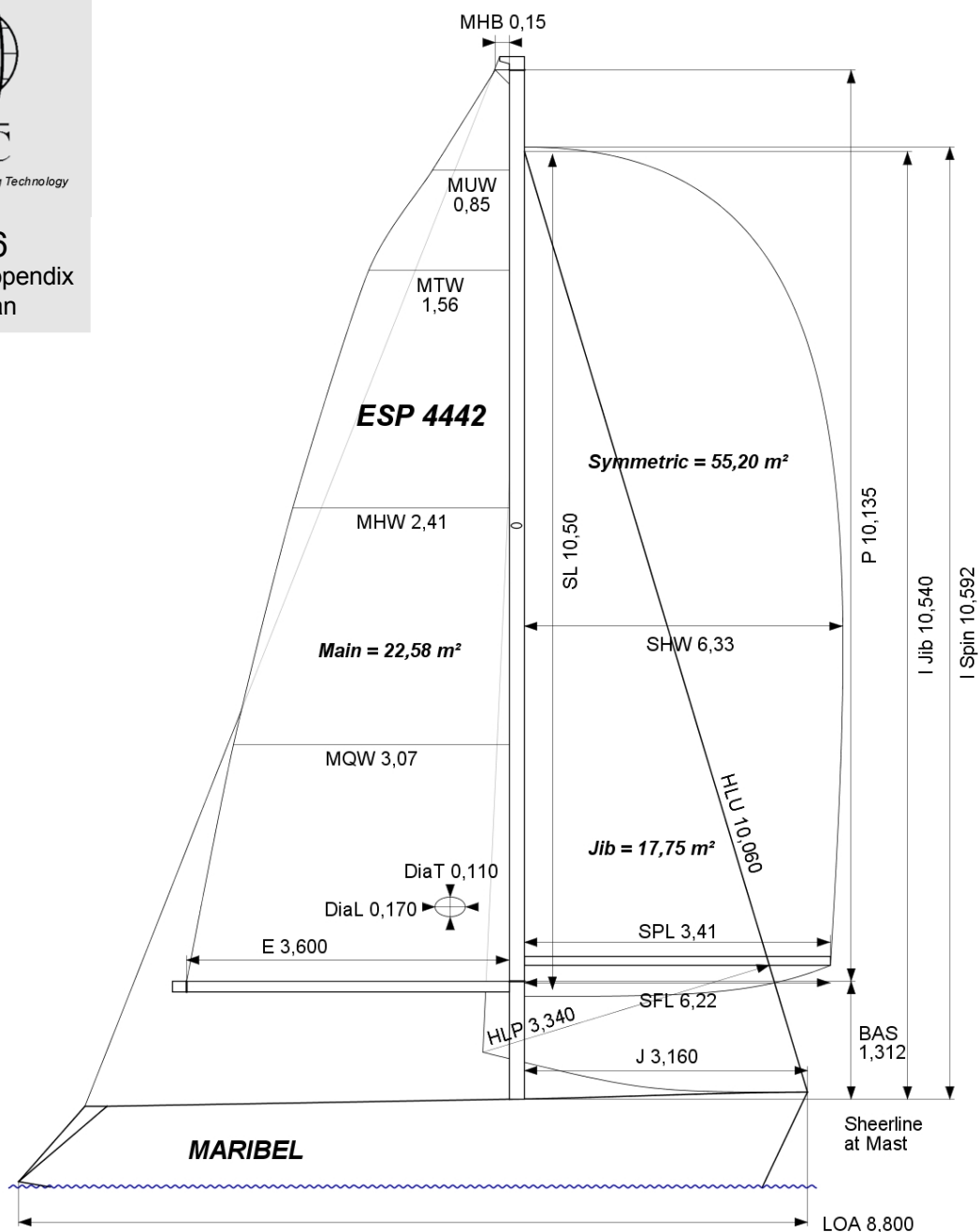
BOAT Name MARIBEL Sail Nr ESP 4442 File E4442.dxt Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 30/01/2016 SG 1.0260 FFM 1.053 FF 1.054 SFFP 0.217 FAM 0.896 FA 0.896 SAFF 7.810 W1 52.400 PD1 591.1 WD 9.330 W2 52.400 PD2 590.1 GSA 1.0 W3 52.400 PD3 591.5 RSA 1.0 W4 52.400 PD4 590.1 PLM 9000.0 LCF from stem on CL / on sheer 4.685 / 4.915 Maximum beam station from stem 5.095 RM Measured 65.2kg·m RM Default 63.8kg·m Limit of positive stability / Stab.Index 104.8° / 103.6 Freeboard at mast at 3.160 0.975																																																							
RIG Forestay Tension Fixed Spreaders 1 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 10.135 E 3.600 MDT1 0.110 MW 0.170 IG 10.540 J 3.160 MDL1 0.170 GO 0.170 ISP 10.592 SFJ MDT2 0.110 BD 0.115 BAS 1.312 SPL 3.410 MDL2 0.170 MWT 88.00 FSP 0.080 TPS TL MCG 4.180		PROPELLER Installation Shaft exposed PRD 0.385 Type Folding 2 blades PBW 0.102 Twin Screw No PIPA 0.0059 PSA 13.867 PHL 0.125 ST3 0.100 ESL 1.000 PSD 0.025 ST1 0.025 ST4 0.055 PHD 0.385 ST2 0.100 ST5 0.185																																																							
MIZZEN RIG AND SAILS N/A		MOVEABLE BALLAST N/A																																																							
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2016 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.150	0.85	1.56	2.41	3.07	22.58		05/09/2013		Dacron	
1	0.145	0.68	1.21	2.09	2.69	19.92	424	17/01/2011		Unknown	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.46	0.93	1.77	2.72	3.34	10.06	106%	17.75	Y		424	17/01/2011		Unknown	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	10.50	10.50	10.50	6.33	6.22	55.20	424	17/01/2011		Unknown	

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