

BOAT Name MA'M'SELLE Sail Nr USA-2727	GPH 575.5	HULL Length Overall 12.190m Maximum Beam 3.638m Displacement 7,343kg Draft 2.235m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.097% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class J-122 Designer Johnstone Builder J Composites Series 01/2006 Age 01/2007 Age Allowance 0.455% Offset File J122 VER.off - 17/10/2019 14:01:18 Measurement by - 17/05/2020		IMSLS 11.139m VCGD -0.017m Sink 23.23kg/mm RL 10.045m VCGM -0.050m WS 31.06m² LSM0 11.043m Displacement/Length ratio 5.4527



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	560.3			628.5		
Time on Time	1.0709			1.0739		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	652.4	511.1	461.4	842.7	629.4	557.1
Time on Time	1.0346	1.3207	1.4630	0.8010	1.0725	1.2117

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	966.3	796.5	704.0	666.3	650.3	642.6	626.1
52°	633.1	532.5	486.4	470.0	463.7	460.4	454.1
60°	598.5	510.4	473.9	458.7	451.8	447.9	443.0
75°	572.3	495.6	465.0	448.1	436.0	428.1	421.0
90°	578.4	488.8	463.1	445.8	429.9	415.2	394.8
110°	569.6	480.0	447.6	428.4	415.5	403.7	381.5
120°	582.6	486.4	450.7	425.6	402.4	387.0	362.7
135°	652.4	525.0	468.6	441.5	416.2	390.9	340.2
150°	773.4	619.3	523.5	473.3	452.4	433.5	390.9
Run VMG	893.0	715.1	604.5	546.1	519.7	483.7	438.6

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VPP Ver. **2020 1.02**
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Selected Courses							
Windward / Leeward	929.6	755.8	654.2	606.2	585.0	563.1	532.3
Circular Random	786.0	636.9	558.4	514.0	487.1	469.1	443.3
Coastal / Long Distance	926.0	709.9	592.2	530.0	498.6	471.2	426.0
Non Spinnaker	858.7	688.1	595.6	541.2	507.4	485.1	456.0

Crew Weight

Default **793kg**
Maximum **793kg**
Minimum* **595kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 614.7	0.9761
Non Spin OSN 598.1	1.0032

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	42.8°	41.3°	40.1°	38.6°	37.9°	37.5°	37.5°
Beat VMG	3.73	4.52	5.11	5.40	5.54	5.60	5.75
52°	5.69	6.76	7.40	7.66	7.76	7.82	7.93
60°	6.02	7.05	7.60	7.85	7.97	8.04	8.13
75°	6.29	7.26	7.74	8.03	8.26	8.41	8.55
90°	6.22	7.37	7.77	8.07	8.37	8.67	9.12
110°	6.32	7.50	8.04	8.40	8.66	8.92	9.44
120°	6.18	7.40	7.99	8.46	8.95	9.30	9.93
135°	5.52	6.86	7.68	8.15	8.65	9.21	10.58
150°	4.65	5.81	6.88	7.61	7.96	8.30	9.21
Run VMG	4.03	5.03	5.96	6.59	6.93	7.44	8.21
Gybe Angles	143.5°	146.5°	148.0°	150.8°	152.3°	176.0°	178.0°

Sails Limitations

Headsails	Spinnakers
6	4

Class Division Length

CDL = **10.587**

Storm Sails Areas

Heavy Weather Jib **37.64**
Storm Jib (JL=10.86) **13.94**
Storm Trysail **14.75**

Owner

BOAT
Name MA'MSELLE Sail Nr USA-2727
File US6537 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Boom Inclining	LCFD	6.397
Flotation date 19/04/2017	SG	1.0060
FFM 1.338	FF 1.360	SFFP 0.300
FAM 0.974	FA 0.976	SAFP 11.850
W1 128.4	PD1 280.9	WD 5.009
W2 128.4	PD2 282.4	GSA 1.0
W3 128.4	PD3 273.2	RSA 1.0
W4 128.4	PD4 279.4	PLM 9000.0
LCF from stem on CL / on sheer		6.765 / 6.986
Maximum beam station from stem		7.800
RM Measured		181.6kg-m
RM Default		186.8kg-m
Limit of positive stability / Stab.Index		118.9° / 123.4
Freeboard at mast at 4.820		1.147



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RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners/Checkstays 0		
Carbon Mast Yes	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 15.719	E 5.360	MDT1 0.130	MW 0.233
IG 16.659	J 4.520	MDL1 0.243	GO 0.243
ISP 17.637	SFJ 0.300	MDT2 0.101	BD 0.220
BAS 1.760	SPL	MDL2 0.151	MWT 5.70
FSD 0.030	TPS 6.022	TL 1.420	MCG 187.50

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD	0.420
Type Folding 3 blades	PBW	0.110
Twin Screw No	PIPA	0.0033
ST1 0.048	ST3 0.170	ST5 0.290
ST2 0.170	ST4 0.098	EDL 2.400

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.18	1.14	2.03	3.48	4.50	50.29	51.28	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	19.90	16.19	18.05	10.38	10.13	155.34	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.10	0.71	1.35	2.55	3.74	5.02	16.54	42.09	Y	No	08/09/2020	Unknow	2020 L/M 1

MEASUREMENT INVENTORY				
Measurer	Date 17/05/2020			
Comment	Internal Ballast total = 0.0			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo	MD-40 40 hp	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

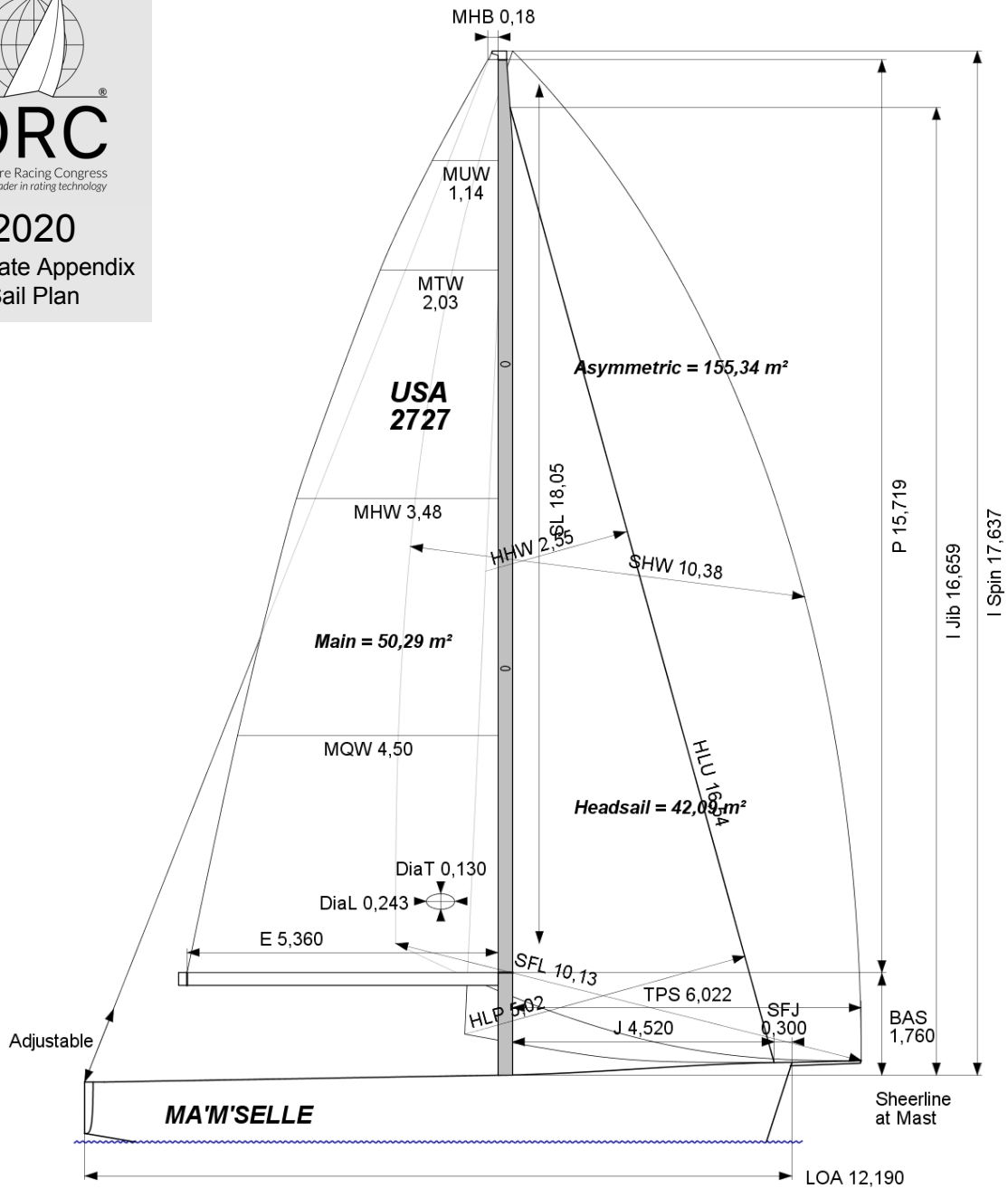
MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
3	Tank	Hot water	alloy	35.0	9.11	0.20	0-0	centerline
2	Tank	Fuel	alloy	132.0	4.61	0.10	146-0	port side
1	Tank	Water	alloy	172.0	4.91	0.10	0-0	stbd side
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
3	Battery	25.0	6.71	0.10	AGM Group 31 12V engine, centerline			
2	Battery	25.0	5.36	0.10	AGM Group 31 12V house, stbd			
1	Battery	50.0	5.31	0.10	2x AGM Group 31 12V house, port			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
139393-002	0.18	1.14	2.03	3.48	4.50	50.30		08/09/2020	North	Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
138492-	0.10	0.71	1.35	2.55	3.74	5.02	16.54	111%	42.09	Y	No		08/09/2020	North	Unknow	2020 L/M 1

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
138492-002	19.90	16.19	18.05	10.38	10.13	155.34	asym		08/09/2020	North	Unknown	A2 Runner