

BOAT Name Mojo Sail Nr ROU 407	GPH 601.5	HULL Length Overall 11.924m Maximum Beam 3.770m Displacement 7,777kg Draft 2.446m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.035% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder Yes Crew Arm Extension
GENERAL Class First 40.7 Designer Farr Builder Beneteau Series 12/1997 Age 06/2001 Age Allowance 0.487% Offset File EFRST407.OFF - 06/09/2000 17:34:00 Measurement by Adrian Panait - 23/05/2015		IMSL 10.789m VCGD -0.075m Sink 22.95kg/mm RL 9.420m VCGM 0.138m WS 30.77m² LSMO 10.718m Displacement/Length ratio 6.3164



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	585.4			653.1	
Time On Time	1.0249			1.0336		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	691.2	532.6	473.5	897.8	658.6	564.1
Time on Time	0.9765	1.2674	1.4256	0.7518	1.0249	1.1966

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	997.5	832.9	734.9	688.0	665.8	652.9	641.2
52°	652.3	549.7	497.5	479.3	471.8	467.7	463.4
60°	614.7	521.7	482.5	466.4	459.3	455.1	451.1
75°	582.5	502.3	471.7	454.4	442.0	434.9	428.1
90°	581.9	500.4	469.4	451.4	435.6	421.0	403.9
110°	628.0	516.6	471.2	447.5	427.4	415.9	397.5
120°	647.6	531.2	478.0	453.0	431.7	410.0	383.4
135°	717.3	584.0	506.3	470.4	448.8	428.1	386.8
150°	851.2	674.1	570.6	504.3	471.2	450.6	411.6
Run VMG	982.8	778.4	658.3	577.0	521.6	482.2	440.6

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Number **008/16**
ORC Ref **ROU00076098**
Issued On **18/05/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **800kg**
Default* **760kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	622.2	0.9643
Non Spin OSN	606.1	0.9900

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	990.2	805.6	696.6	632.5	593.7	567.6	540.9
Circular Random	829.3	669.4	583.6	533.7	502.9	482.8	457.9
Ocean for PCS	1020.5	787.5	656.0	575.7	523.9	488.1	439.7
Non Spinnaker	865.7	695.6	603.2	548.8	514.9	492.6	464.3

Sails Limitations

Headsails	Spinnakers
6	4

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.1°	41.9°	41.7°	39.7°	38.5°	38.1°	37.6°
Beat VMG	3.61	4.32	4.90	5.23	5.41	5.51	5.61
52°	5.52	6.55	7.24	7.51	7.63	7.70	7.77
60°	5.86	6.90	7.46	7.72	7.84	7.91	7.98
75°	6.18	7.17	7.63	7.92	8.14	8.28	8.41
90°	6.19	7.19	7.67	7.97	8.26	8.55	8.91
110°	5.73	6.97	7.64	8.04	8.42	8.66	9.06
120°	5.56	6.78	7.53	7.95	8.34	8.78	9.39
135°	5.02	6.16	7.11	7.65	8.02	8.41	9.31
150°	4.23	5.34	6.31	7.14	7.64	7.99	8.75
Run VMG	3.66	4.62	5.47	6.24	6.90	7.47	8.17
Gybe Angles	144.8°	149.7°	151.6°	155.6°	171.1°	180.0°	180.0°

Class Division Length

CDL = **10.105**

Storm Sails Areas

Heavy Weather Jib **34.03**
Storm Jib (JL=10.32) **12.60**
Storm Triesail **14.72**

Owner

BOAT	
Name Mojo	Sail Nr ROU 407
File ROU407	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 23/04/2016		SG 1.0200	
FFM 1.319	FF 1.321	SFFP 0.292	
FAM 1.093	FA 1.094	SAFP 11.313	
W1 99.9	PD1 567.2	WD 12.038	
W2 99.9	PD2 566.8	GSA 1.0	
W3 99.9	PD3 569.2	RSA 1.0	
W4 99.9	PD4 568.4	PLM 9000.0	
LCF from stem on CL / on sheer		6.549 / 6.776	
Maximum beam station from stem		7.502	
RM Measured		166.8kg·m	
RM Default		190.2kg·m	
Limit of positive stability / Stab.Index		111.3° / 115.3	
Freeboard at mast at 4.434		1.185	

RIG			
Forestay Tension Aft	Spreaders 3		
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 14.940	E 5.630	MDT1 0.118	MW 0.214
IG 15.787	J 4.434	MDL1 0.218	GO 0.239
ISP 15.867	SFJ 0.000	MDT2 0.116	BD 0.192
BAS 1.752	SPL 4.488	MDL2 0.212	MWT
FSP 0.076	TPS	TL 0.700	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.465		
Type Folding 2 blades	PBW 0.115		
Twin Screw No	PIPA 0.0032		
ST1 0.045	ST3 0.170	ST5 0.290	
ST2 0.160	ST4 0.100	EDL 2.225	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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IMS Measurement Certificate

Certificate	
Number 008/16	
ORC Ref ROU00076098	
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VPP Ver. 2017 1.00	
Valid until 31/12/2017	



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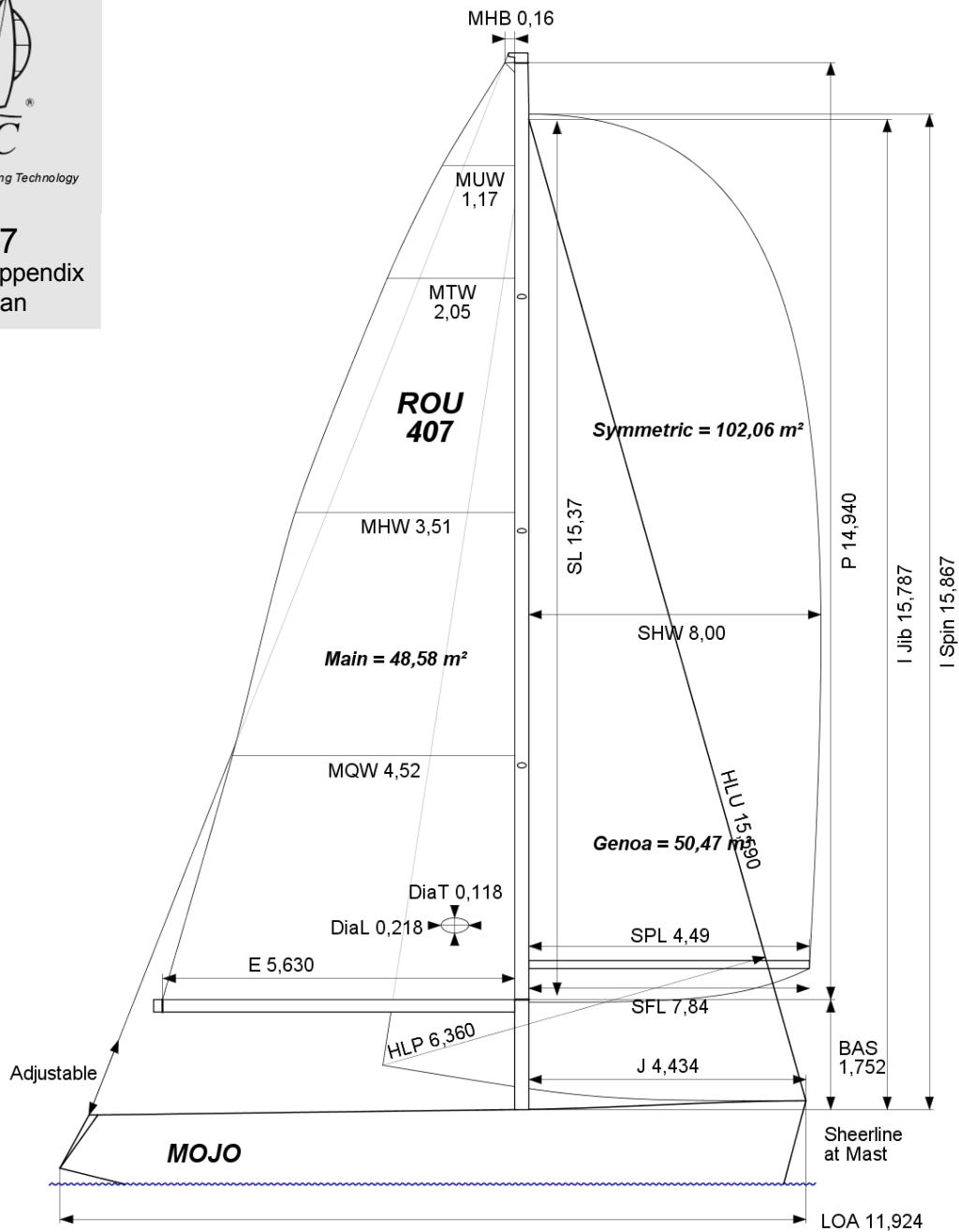
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.160	1.17	2.05	3.51	4.52	48.58	49.56	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	102.06		SL · (SFL + 4·SHW) / 6	
	15.37	15.37	15.37	8.00	7.84				
Asymmetric									
Not Available									

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
0.10	0.74	1.45	2.97	4.52	6.36	15.59	50.47			02/06/2008	Kevlar	
0.10	0.70	1.38	2.88	4.45	6.08	15.37	46.22			11/04/2011	Kevlar	
0.10	0.70	1.38	2.88	4.45	6.06	15.39	45.43			18/05/2011	Carbon	
0.10	0.54	1.24	2.32	3.46	4.62	15.40	35.84			26/07/2010	Carbon	



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ms	0.160	1.17	2.05	3.51	4.52	48.58		02/06/2004	north	Kevlar	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
j2						6.36	15.59	143%	50.47			cro 5	02/06/2008	north	Kevlar	
j3	0.10	0.74	1.45	2.97	4.52	6.08	15.37	137%	46.22			cro 5	11/04/2011	north	Kevlar	
j1	0.10	0.70	1.38	2.88	4.45	6.06	15.39	137%	45.43			cro 5	18/05/2011	north	Carbon	
j4	0.10	0.54	1.24	2.32	3.46	4.62	15.40	104%	35.84			ita 35	26/07/2010	north	Carbon	

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
s1	15.37	15.37	15.37	8.00	7.84	102.06	A.Nita	10/05/2016		Unknown	
s2	15.37	15.37	15.37	7.90	7.77	100.85	cro 5	10/05/2010	north	Nylon	
1	15.45	15.45	15.45	7.79	7.82	100.37	cro 5	10/10/2010	North sails	Nylon	S1

ASYMMETRIC SPINNAKERS (0)

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