

BOAT Name IL MORO DI VENEZIA XXVII Sail Nr ITA-16417	GPH 546.9	HULL Length Overall 12.860m Maximum Beam 3.798m Displacement 6,027kg Draft 2.339m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Carbon Carbon Rudder Yes Crew Arm Extension IMSL 11.685m VCGD -0.300m Sink 23.79kg/mm RL 11.201m VCGM -0.109m WS 30.47m²
GENERAL Class NAUTILUS MARINA 43 Designer COSSUTTI Builder NAUTILUS MARINE Series 08/2009 Age 08/2009 Age Allowance 0.195% Offset File I16417C.off - 23/07/2015 12:50:34 Measurement by LORET-NOCETI-MORAS - 26/05/2014		

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	532.8			602.7		
Time On Time	1.1262			1.1199		
Performance Line	PLT		PLD	PLT		PLD
	0.910		71.9	0.924		189.8
Triple Number	Low	Medium	High	Low	Medium	High
	1.0603	1.3998	1.5997	0.8051	1.1161	1.3000

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	956.4	783.2	677.2	630.9	608.2	594.2	588.5
52°	615.1	506.3	454.6	438.3	430.3	425.3	419.1
60°	573.1	477.2	440.3	423.9	415.1	409.5	402.0
75°	537.2	458.8	429.0	406.0	390.0	381.9	374.3
90°	539.8	451.4	429.1	405.9	382.6	362.7	344.9
110°	547.2	455.9	417.2	387.0	368.9	356.6	335.7
120°	571.2	463.0	422.2	390.8	361.9	346.7	320.7
135°	641.1	513.0	451.1	421.1	391.5	362.4	300.2
150°	780.4	617.6	516.7	461.3	430.6	404.4	349.7
Run VMG	901.1	713.1	596.7	530.1	484.9	454.2	403.6
Selected Courses							
Windward / Leeward	928.8	748.1	636.9	580.5	546.5	524.2	496.1
Circular Random	762.2	611.7	530.1	482.1	451.7	431.1	403.5
Ocean for PCS	813.8	639.4	541.3	480.5	439.3	408.6	362.3
Non Spinnaker	829.3	659.1	565.2	508.8	472.8	448.5	417.8

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	44.5°	43.9°	42.8°	40.3°	38.8°	37.7°	37.9°
Beat VMG	3.76	4.60	5.32	5.71	5.92	6.06	6.12
52°	5.85	7.11	7.92	8.21	8.37	8.47	8.59
60°	6.28	7.54	8.18	8.49	8.67	8.79	8.96
75°	6.70	7.85	8.39	8.87	9.23	9.43	9.62
90°	6.67	7.97	8.39	8.87	9.41	9.93	10.44
110°	6.58	7.90	8.63	9.30	9.76	10.10	10.72
120°	6.30	7.77	8.53	9.21	9.95	10.38	11.23
135°	5.62	7.02	7.98	8.55	9.20	9.93	11.99
150°	4.61	5.83	6.97	7.80	8.36	8.90	10.29
Run VMG	4.00	5.05	6.03	6.79	7.42	7.93	8.92
Gybe Angles	140.8°	143.8°	145.1°	153.2°	159.8°	166.7°	159.0°



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2015
ORC International
Certificate

Rating Office

Offshore
Racing
Congress

**Invalid for
Racing**



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Certificate

Number **164171**
ORC Ref **ITA00017009**
Issued On **21/08/2015**
VPP Ver. **2015 1.01**
Valid until **31/12/2015**

Crew Weight

Declared **832kg**
Default* **829kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	551.8	1.0874
Double H.OSN	538.4	1.1144
Non Spin GPH	584.0	1.0274
Non Spin OSN	567.8	1.0566
N/S Perf. Line	40.5	0.798

Sails Limitations

Headsails 7	Spinnakers 4
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Class Division Length

CDL = **11.444**

Storm Sails Areas

Heavy Weather Jib **35.56**
Storm Jib (JL=10.55) **13.17**
Storm Trysail **15.37**

Owner

BOAT										INCLINING TEST AND FREEBOARDS											
Name IL MORO DI					Sail Nr ITA-16417					Inclining Test Current Inclining											
File I16417.dxt					Data in meters/kilograms					Flotation date 22/07/2015 SG 1.0210											
RIG										FFM 1.446 FF 1.442 SFFP 0.201											
Forestay Tension Aft Spreaders 2										FAM 1.120 FA 1.131 SAFF 12.638											
Inner Stay None Fitted Runners 0										W1 92.850 PD1 480.8 WD 12.590											
Carbon Mast Yes Jumper Struts None										W2 92.850 PD2 491.7 GSA 1.0											
Taper Hollows No Jib Furler No										W3 92.850 PD3 483.7 RSA 1.0											
Fiber Rigging Yes Main Furler No										W4 92.850 PD4 490.3 PLM 9000.0											
Lenticular Rigging No Without Backstay No										LCF from stem on CL / on sheer 6.790 / 7.039											
Articulated Bowsprit No										Maximum beam station from stem 8.572											
P 15.710 E 5.590 MDT1 0.138 MW 0.260										RM Measured 189.2kg·m											
IG 16.105 J 5.160 MDL1 0.270 GO 0.300										RM Default 183.0kg·m											
ISP 17.600 SFJ 0.000 MDT2 0.130 BD 0.300										Limit of positive stability / Stab.Index 123.7° / 123.5											
BAS 1.975 SPL 0.000 MDL2 0.230 MWT 204.00										Freeboard at mast at 5.160 1.302											
FSP 0.104 TPS 6.350 TL 1.550 MCG 6.840																					
MIZZEN RIG AND SAILS										PROPELLER											
N/A										Installation Strut PRD 0.457											
										Type Folding 2 blades PBW 0.164											
										Twin Screw No PIPA 0.0038											
										ST1 0.050 ST3 0.180 ST5 0.310											
										ST2 0.180 ST4 0.112 EDL 1.605											
COMMENTS										MOVEABLE BALLAST											
										N/A											
										CENTERBOARD											
										N/A											
SAILS (Maximum Areas)																					
Mainsail						HB		MGT		MGU		MGM		MGL		Area		Area (r)		Formula	
						0.400		1.33		2.22		3.70		4.79		54.00		55.30		P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric																					
Not Available																					
Asymmetric						SLU		SLE		ASL		AMG		ASF		151.38				ASL · (ASF + 4·AMG) / 6	
						19.80		16.33		18.07		10.25		9.28							
HEADSAILS																					
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)																					
JH		JGT		JGU		JGM		JGL		LPG		JL		Area		Btn		Fly		Meas.Date	
0.11		0.85		1.56		2.78		3.99		5.22		16.81		46.01		N		N		21/06/2013	
																				Unknown	
MEASUREMENT INVENTORY										MEASUREMENT INVENTORY											
Measurer MORASSUTTI FIV 136										Id Item Tank Use Tank Type Capcty Dist. VCG Condtn Description											
Date 22/07/2015										A Tank H2O PVC 120.0 9.70 0.00 0-0 VUOTO											
Comment MARE CALMO - VENTO 3 KTS										B Tank H2O PVC 120.0 9.70 0.00 0-0 VUOTO											
Id Item Weight Distance VCG Description										C Tank FUEL PVC 190.0 9.70 0.00 00-0 LT.											
Id Item Maker Model										Id Item Weight Distance VCG Description											
A Engine YANMAR 40HP										A Battery 17.2 8.16 0.00 50 AH											
Id Item Weight Description										B Battery 26.0 4.84 0.00 75 AH											



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Measurements Datasheet

Certificate

Number **164171**

ORC Ref **ITA00017009**

Issued On **21/08/2015**

VPP Ver. **2015 1.01**

Valid until **31/12/2015**

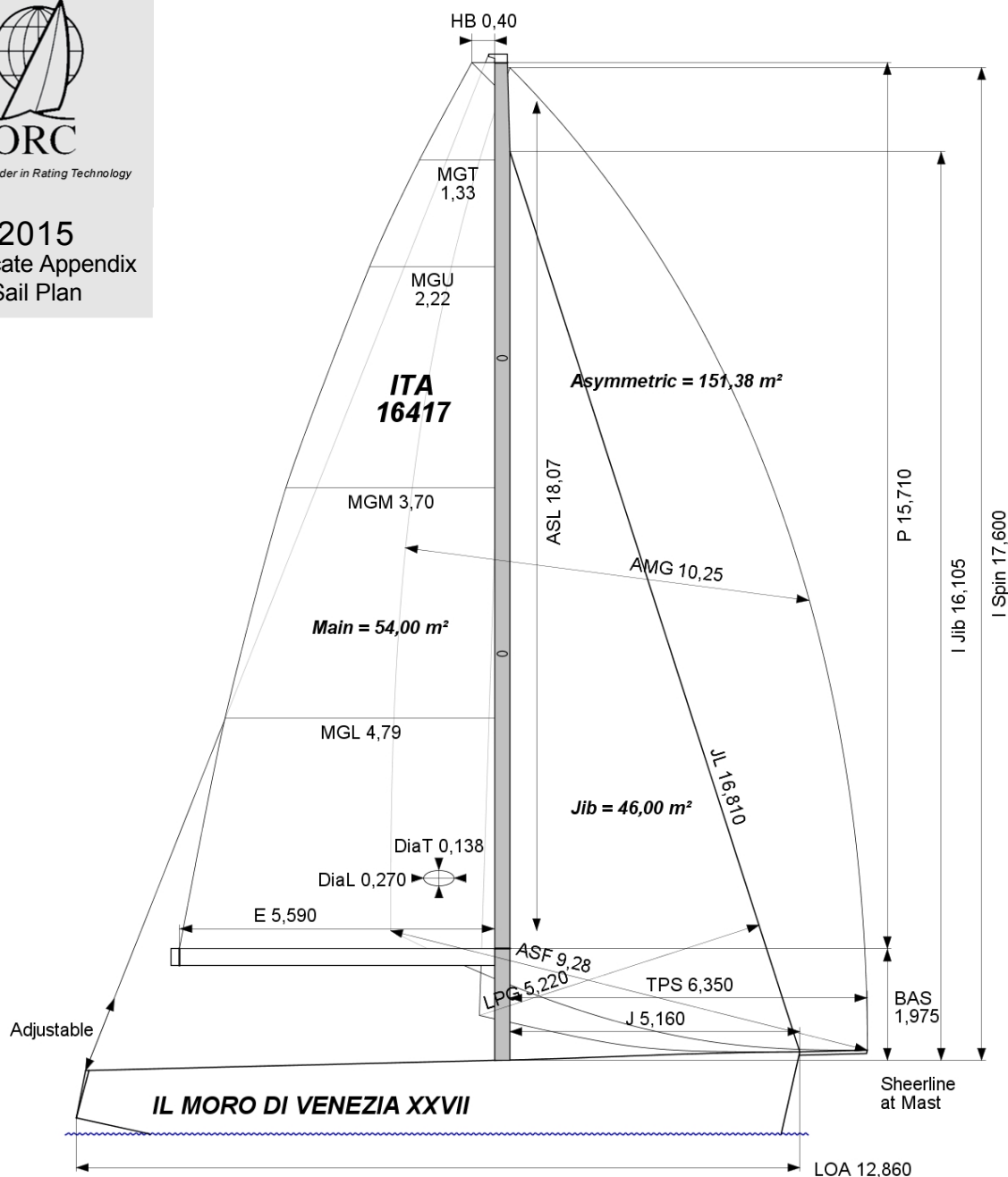


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2015 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.400	1.33	2.22	3.70	4.79	53.87	MAMONE	31/03/2010	ONESAIL	Carbon	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.11	0.85	1.56	2.78	3.99	5.22	16.81	101%	46.01	N	N	LORETAN	21/06/2013		Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
F	19.80	16.33	18.06	10.25	9.28	151.38	asym	LORETANO	10/04/2015		Unknown	