

BOAT Name NYYC IC 37 Sail Nr NYYC 37	GPH 532.8	HULL Length Overall 11.300m Maximum Beam 3.648m Displacement 3,534kg Draft 2.512m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder Yes Crew Arm Extension IMSL 10.835m VCGD -0.303m Sink 19.31kg/mm RL 10.520m VCGM -0.394m WS 25.16m² LSM0 10.347m Displacement/Length ratio 3.1902
GENERAL Class IC-37 Designer Mills Builder Meiges Series 01/2017 Age 11/2018 Age Allowance 0.098% Offset File ic37.OD - 03/09/2020 00:00:00 Measurement by - 21/07/2020		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	518.8			588.2		
Time on Time	1.1565			1.1476		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	605.1	475.3	413.7	782.7	595.0	512.2
Time on Time	1.1155	1.4203	1.6315	0.8624	1.1344	1.3179

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	896.0	730.7	671.4	651.0	641.1	626.3	627.7
52°	583.1	489.2	462.8	453.6	448.9	441.6	434.1
60°	548.6	472.2	446.5	435.1	428.4	421.7	408.5
75°	521.9	461.5	427.6	404.3	393.3	387.0	369.9
90°	525.8	462.1	427.5	391.8	366.6	354.1	340.5
110°	528.4	451.0	412.3	388.2	365.4	346.1	299.9
120°	542.3	455.8	407.9	373.3	351.5	331.3	292.5
135°	609.7	484.0	435.7	391.4	345.6	307.1	265.1
150°	729.4	573.2	487.1	439.0	402.3	359.8	281.5
Run VMG	842.3	661.9	562.4	507.9	464.6	415.5	325.1

Certificate
Number **IC 37**
ORC Ref **03410000QVB**
Issued On **26/09/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **723kg**
Maximum **686kg**
Minimum* **515kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **575.4 1.0428**
Non Spin OSN **561.9 1.0678**

Selected Courses							
Windward / Leeward	869.1	696.3	616.9	579.5	552.9	520.9	476.4
Circular Random	731.2	592.0	517.7	473.6	444.4	422.5	389.3
Coastal / Long Distance	866.4	655.2	555.9	497.8	461.0	424.5	366.8
Non Spinnaker	805.2	645.0	557.9	505.7	471.8	447.8	414.8

Sails Limitations
Headsails **6** 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	43.5°	42.0°	39.8°	39.6°	39.0°	38.6°	39.4°
Beat VMG	4.02	4.93	5.36	5.53	5.61	5.75	5.74
52°	6.17	7.36	7.78	7.94	8.02	8.15	8.29
60°	6.56	7.62	8.06	8.27	8.40	8.54	8.81
75°	6.90	7.80	8.42	8.90	9.15	9.30	9.73
90°	6.85	7.79	8.42	9.19	9.82	10.17	10.57
110°	6.81	7.98	8.73	9.27	9.85	10.40	12.01
120°	6.64	7.90	8.83	9.64	10.24	10.87	12.31
135°	5.90	7.44	8.26	9.20	10.42	11.72	13.58
150°	4.94	6.28	7.39	8.20	8.95	10.00	12.79
Run VMG	4.27	5.44	6.40	7.09	7.75	8.66	11.07
Gybe Angles	142.0°	144.0°	149.3°	151.5°	148.0°	145.5°	142.3°

Class Division Length
CDL = **10.673**

Storm Sails Areas
Heavy Weather Jib **30.93**
Storm Jib (JL=9.84) **11.46**
Storm Trysail **12.95**

Owner

BOAT	
Name NYYC IC 37	Sail Nr NYYC 37
File US6726	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 10/07/2020	SG 1.0220
VCGDe	
FFM 1.256	FF 1.257 SFFP 0.600
FAM 0.946	FA 0.948 SAFFP 11.300
LCF from stem on CL / on sheer 5.999 / 6.229	
Maximum beam station from stem 8.500	
RM Measured 136.2kg-m	
RM Default 125.0kg-m	
Limit of positive stability / Stab.Index 128.3° / 123.7	
Freeboard at mast at 4.495 1.125	



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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 14.790	E 5.000 MDT1 0.128 MW 0.232
IG 15.066	J 4.390 MDL1 0.217 GO 0.252
ISP 16.425	SFJ 0.105 MDT2 0.114 BD 0.225
BAS 1.670	SPL 0.165 MDL2 0.165 MWT 161.50
FSD 0.000	TPS 6.790 TL 1.335 MCG 4.997

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0.415
Type Folding 2 blades	PBW 0.105
Twin Screw No	PIPA 0.0035
ST1 0.042	ST3 0.180 ST5 0.270
ST2 0.180	ST4 0.112 EDL 1.170

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.25	1.74	2.44	3.52	4.33	49.41	50.72	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		
	18.54	15.91	17.23	10.29	11.06	149.91	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
0.08	0.71	1.31	2.36	3.40	4.50	15.31	35.72	Y	No	13/07/2020		Class Headsail

MEASUREMENT INVENTORY				
Measurer				
Date 10/07/2020				
Comment				
Internal Ballast total = 0.0				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Engine	Yanmar		3YM20CE
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

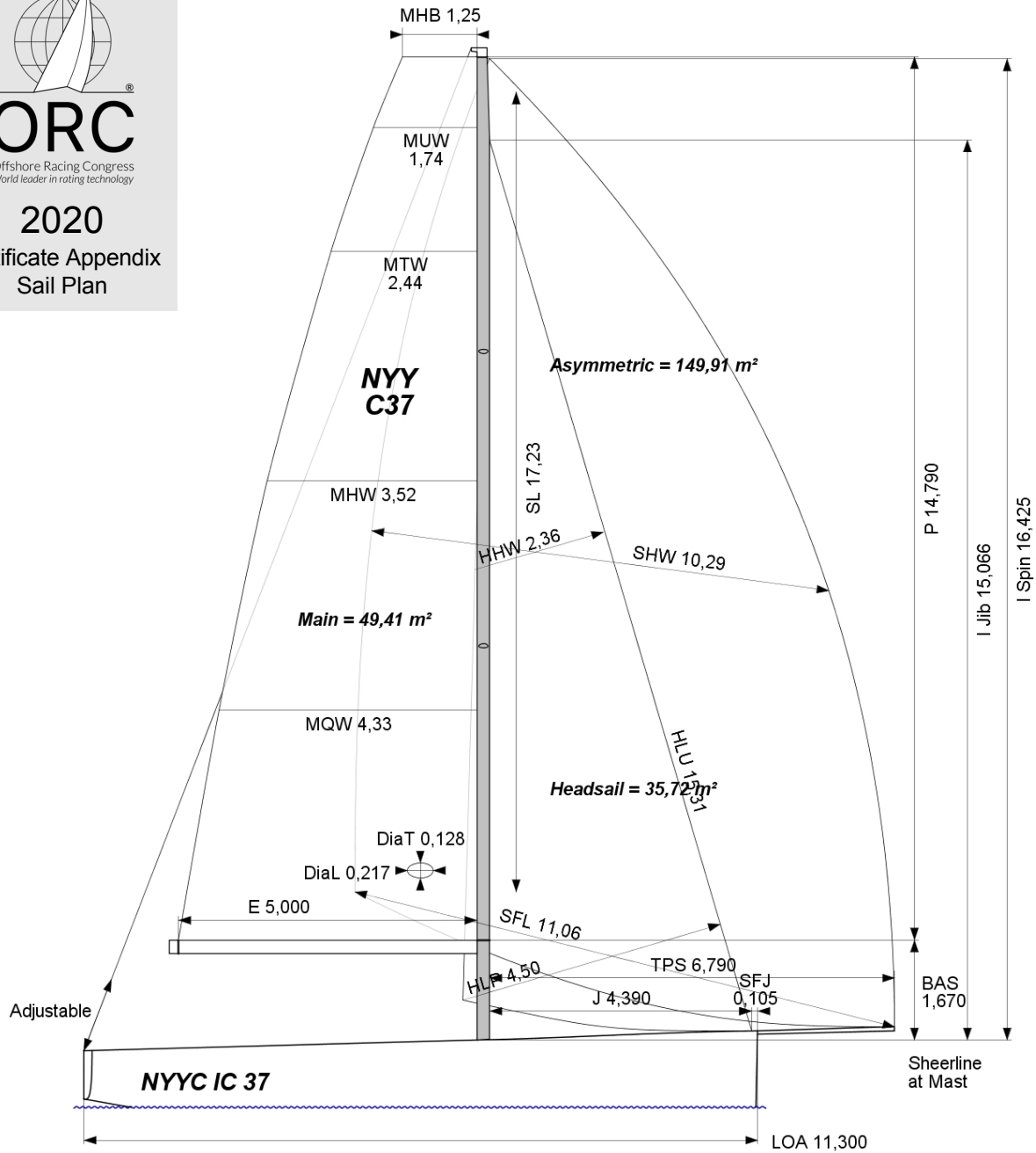
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
1	Tank	Fuel	PVC	57.0	7.00	0.00	49.0	Centerline aft of	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
2	Battery	29.0	6.10	0.10 12V Group 27 house battery					
1	Battery	29.0	6.10	0.10 12V Group 27 engine battery					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
Main	1.25	1.74	2.44	3.52	4.33	49.41	Mike Marshall	13/07/2020	North		Class Mainsail

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
Jib	0.08	0.71	1.31	2.36	3.40	4.50	15.31	103%	35.72	Y	No	Mike	13/07/2020	North		Class Headsail

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
Spin	18.54	15.91	17.23	10.29	11.06	149.92	asym	Mike Marshall	13/07/2020	North	Nylon	