

<b>BOAT</b>
Name <b>Nemo</b> Sail Nr <b>ROU 408</b>

<b>GPH</b>
<b>606.3</b>

<b>HULL</b>	
Length Overall	<b>11.924m</b>
Maximum Beam	<b>3.770m</b>
Displacement	<b>7,219kg</b>
Draft	<b>2.421m</b>
IMS Reg. Division	<b>Cruiser/Racer</b>
Dynamic Allowance	<b>0.142%</b>
Fwd Accommodation	<b>Yes</b>
Hull Construction	<b>Solid</b>
Carbon Rudder	<b>Yes</b>
Crew Arm Extension	
IMSL	<b>10.658m</b> VCGD <b>-0.151m</b> Sink <b>22.36kg/mm</b>
RL	<b>9.177m</b> VCGM <b>0.087m</b> WS <b>29.81m<sup>2</sup></b>
LSMO	<b>10.564m</b> Displacement/Length ratio <b>6.1234</b>



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**2017**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>First 40.7</b>
Designer <b>Farr</b>
Builder <b>Beneteau</b>
Series <b>12/1997</b>
Age <b>12/2000</b>
Age Allowance <b>0.487%</b>
Offset File <b>EFRST407.OFF - 06/09/2000 17:34:00</b>
Measurement by <b>Adrian Panait - 17/05/2017</b>

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<b>SCORING OPTIONS</b>	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>588.9</b>			<b>658.1</b>		
Time On Time	<b>1.0188</b>			<b>1.0256</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>701.4</b>	<b>535.6</b>	<b>473.1</b>	<b>910.9</b>	<b>663.7</b>	<b>566.6</b>
Time on Time	<b>0.9623</b>	<b>1.2602</b>	<b>1.4268</b>	<b>0.7410</b>	<b>1.0171</b>	<b>1.1914</b>

<b>TIME ALLOWANCES</b>	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	<b>1034.1</b>	<b>857.8</b>	<b>754.6</b>	<b>697.0</b>	<b>674.1</b>	<b>662.6</b>	<b>645.6</b>
52°	<b>674.9</b>	<b>566.4</b>	<b>506.5</b>	<b>482.0</b>	<b>473.2</b>	<b>468.8</b>	<b>462.6</b>
60°	<b>634.6</b>	<b>535.1</b>	<b>489.1</b>	<b>469.1</b>	<b>459.7</b>	<b>454.9</b>	<b>450.7</b>
75°	<b>601.5</b>	<b>512.4</b>	<b>477.1</b>	<b>457.7</b>	<b>443.0</b>	<b>432.7</b>	<b>424.5</b>
90°	<b>601.9</b>	<b>511.5</b>	<b>471.7</b>	<b>455.5</b>	<b>438.8</b>	<b>422.3</b>	<b>399.0</b>
110°	<b>624.1</b>	<b>513.3</b>	<b>469.2</b>	<b>444.7</b>	<b>423.2</b>	<b>411.4</b>	<b>392.0</b>
120°	<b>643.7</b>	<b>527.5</b>	<b>475.9</b>	<b>450.5</b>	<b>427.5</b>	<b>404.5</b>	<b>377.2</b>
135°	<b>713.7</b>	<b>579.5</b>	<b>502.9</b>	<b>468.2</b>	<b>445.8</b>	<b>423.7</b>	<b>380.5</b>
150°	<b>846.6</b>	<b>670.5</b>	<b>566.7</b>	<b>501.4</b>	<b>469.1</b>	<b>447.9</b>	<b>406.7</b>
Run VMG	<b>977.6</b>	<b>774.2</b>	<b>654.0</b>	<b>573.5</b>	<b>519.1</b>	<b>480.4</b>	<b>437.6</b>

<b>Certificate</b>
Number <b>010/17</b>
ORC Ref <b>ROU00076100</b>
Issued On <b>18/05/2017</b>
VPP Ver. <b>2017 1.00</b>
Valid until <b>31/12/2017</b>

<b>Selected Courses</b>	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	<b>1005.8</b>	<b>816.0</b>	<b>704.3</b>	<b>635.3</b>	<b>596.6</b>	<b>571.5</b>	<b>541.6</b>
Circular Random	<b>840.2</b>	<b>676.4</b>	<b>588.0</b>	<b>536.2</b>	<b>504.1</b>	<b>482.8</b>	<b>455.4</b>
Ocean for PCS	<b>1032.2</b>	<b>795.0</b>	<b>660.7</b>	<b>578.4</b>	<b>524.9</b>	<b>487.7</b>	<b>436.5</b>
Non Spinnaker	<b>890.8</b>	<b>712.3</b>	<b>614.7</b>	<b>556.8</b>	<b>520.7</b>	<b>496.8</b>	<b>466.6</b>

<b>Crew Weight</b>	
Declared	<b>830kg</b>
Default*	<b>744kg</b>
Non Manual Pwr	<b>No</b>

<b>Special Scoring</b>	
ToD	ToT
Non Spin GPH <b>634.6</b>	<b>0.9455</b>
Non Spin OSN <b>616.0</b>	<b>0.9741</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.1°</b>	<b>41.8°</b>	<b>41.8°</b>	<b>40.2°</b>	<b>39.1°</b>	<b>39.0°</b>	<b>38.4°</b>
Beat VMG	<b>3.48</b>	<b>4.20</b>	<b>4.77</b>	<b>5.16</b>	<b>5.34</b>	<b>5.43</b>	<b>5.58</b>
52°	<b>5.33</b>	<b>6.36</b>	<b>7.11</b>	<b>7.47</b>	<b>7.61</b>	<b>7.68</b>	<b>7.78</b>
60°	<b>5.67</b>	<b>6.73</b>	<b>7.36</b>	<b>7.67</b>	<b>7.83</b>	<b>7.91</b>	<b>7.99</b>
75°	<b>5.99</b>	<b>7.03</b>	<b>7.55</b>	<b>7.86</b>	<b>8.13</b>	<b>8.32</b>	<b>8.48</b>
90°	<b>5.98</b>	<b>7.04</b>	<b>7.63</b>	<b>7.90</b>	<b>8.20</b>	<b>8.52</b>	<b>9.02</b>
110°	<b>5.77</b>	<b>7.01</b>	<b>7.67</b>	<b>8.10</b>	<b>8.51</b>	<b>8.75</b>	<b>9.18</b>
120°	<b>5.59</b>	<b>6.82</b>	<b>7.56</b>	<b>7.99</b>	<b>8.42</b>	<b>8.90</b>	<b>9.54</b>
135°	<b>5.04</b>	<b>6.21</b>	<b>7.16</b>	<b>7.69</b>	<b>8.07</b>	<b>8.50</b>	<b>9.46</b>
150°	<b>4.25</b>	<b>5.37</b>	<b>6.35</b>	<b>7.18</b>	<b>7.67</b>	<b>8.04</b>	<b>8.85</b>
Run VMG	<b>3.68</b>	<b>4.65</b>	<b>5.50</b>	<b>6.28</b>	<b>6.94</b>	<b>7.49</b>	<b>8.23</b>
Gybe Angles	<b>144.7°</b>	<b>149.4°</b>	<b>151.3°</b>	<b>155.6°</b>	<b>170.8°</b>	<b>180.0°</b>	<b>180.0°</b>

<b>Sails Limitations</b>	
Headsails	Spinnakers
<b>6</b>	<b>4</b>

<b>Class Division Length</b>
<b>CDL = 9.918</b>

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>33.60</b>
Storm Jib (JL=10.25)	<b>12.44</b>
Storm Trysail	<b>13.73</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>Nemo</b>	Sail Nr <b>ROU 408</b>
File <b>ROU408</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>17/05/2017</b>				SG <b>1.0080</b>	
FFM	<b>1.347</b>	FF	<b>1.354</b>	SFFP	<b>0.292</b>
FAM	<b>1.109</b>	FA	<b>1.113</b>	SAFP	<b>11.313</b>
W1	<b>100.5</b>	PD1	<b>563.8</b>	WD	<b>11.900</b>
W2	<b>100.5</b>	PD2	<b>563.8</b>	GSA	<b>1.0</b>
W3	<b>100.5</b>	PD3	<b>564.4</b>	RSA	<b>1.0</b>
W4	<b>100.5</b>	PD4	<b>564.7</b>	PLM	<b>9000.0</b>
LCF from stem on CL / on sheer				<b>6.500 / 6.737</b>	
Maximum beam station from stem				<b>7.502</b>	
RM Measured				<b>166.9kg·m</b>	
RM Default				<b>178.9kg·m</b>	
Limit of positive stability / Stab.Index				<b>115.3° / 118.1</b>	
Freeboard at mast at 4.390				<b>1.214</b>	

<b>RIG</b>					
Forestay Tension	<b>Aft</b>	Spreaders		<b>3</b>	
Inner Stay	<b>None Fitted</b>	Runners		<b>0</b>	
Carbon Mast	<b>No</b>	Jumper Struts		<b>None</b>	
Taper Hollows	<b>No</b>	Jib Furler		<b>No</b>	
Fiber Rigging	<b>No</b>	Main Furler		<b>No</b>	
Lenticular Rigging	<b>No</b>	Without Backstay		<b>No</b>	
Articulated Bowsprit	<b>No</b>				
P	<b>14.806</b>	E	<b>5.300</b>	MDT1	<b>0.118</b>
IG	<b>15.690</b>	J	<b>4.390</b>	MDL1	<b>0.218</b>
ISP	<b>15.790</b>	SFJ		MDT2	<b>0.110</b>
BAS	<b>1.730</b>	SPL	<b>4.410</b>	MDL2	<b>0.170</b>
FSP	<b>0.076</b>	TPS		TL	<b>1.000</b>
				MW	<b>0.218</b>
				GO	<b>0.242</b>
				BD	<b>0.192</b>
				MWT	<b>220.00</b>
				MCG	<b>5.400</b>

<b>MIZZEN RIG AND SAILS</b>					
N/A					

<b>PROPELLER</b>					
Installation	<b>Strut</b>	PRD	<b>0.455</b>		
Type	<b>Folding 2 blades</b>	PBW	<b>0.115</b>		
Twin Screw	<b>No</b>	PIPA	<b>0.0028</b>		
ST1	<b>0.045</b>	ST3	<b>0.171</b>	ST5	<b>0.290</b>
ST2	<b>0.170</b>	ST4	<b>0.092</b>	EDL	<b>2.224</b>

<b>COMMENTS</b>					

<b>MOVEABLE BALLAST</b>					
N/A					

<b>CENTERBOARD</b>					
N/A					

<b>SAILS (Maximum Areas)</b>										
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula		
	0.180	1.20	2.08	3.51	4.57	47.88	49.04	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)		
Symmetric	SLU	SLE	SL	SHW	SFL					
	15.37	15.37	15.37	8.00	7.84	102.06		SL · (SFL + 4·SHW) / 6		
Asymmetric	Not Available									

<b>HEADSAILS</b>												
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
0.13	0.75	1.37	2.48	3.51	4.52	15.72	37.81			23/05/2015	Carbon	
0.13	0.70	1.27	2.34	3.42	4.48	15.72	36.54				Unknow	
0.09	0.58	1.11	2.18	3.29	4.38	15.72	34.59				Unknow	
0.07	0.52	0.98	1.96	3.00	4.18	12.90	26.10				Dacron	




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# 2017

## IMS Measurement Certificate

**Certificate**

Number **010/17**  
 ORC Ref **ROU00076100**  
 Issued On **18/05/2017**  
 VPP Ver. **2017 1.00**  
 Valid until **31/12/2017**

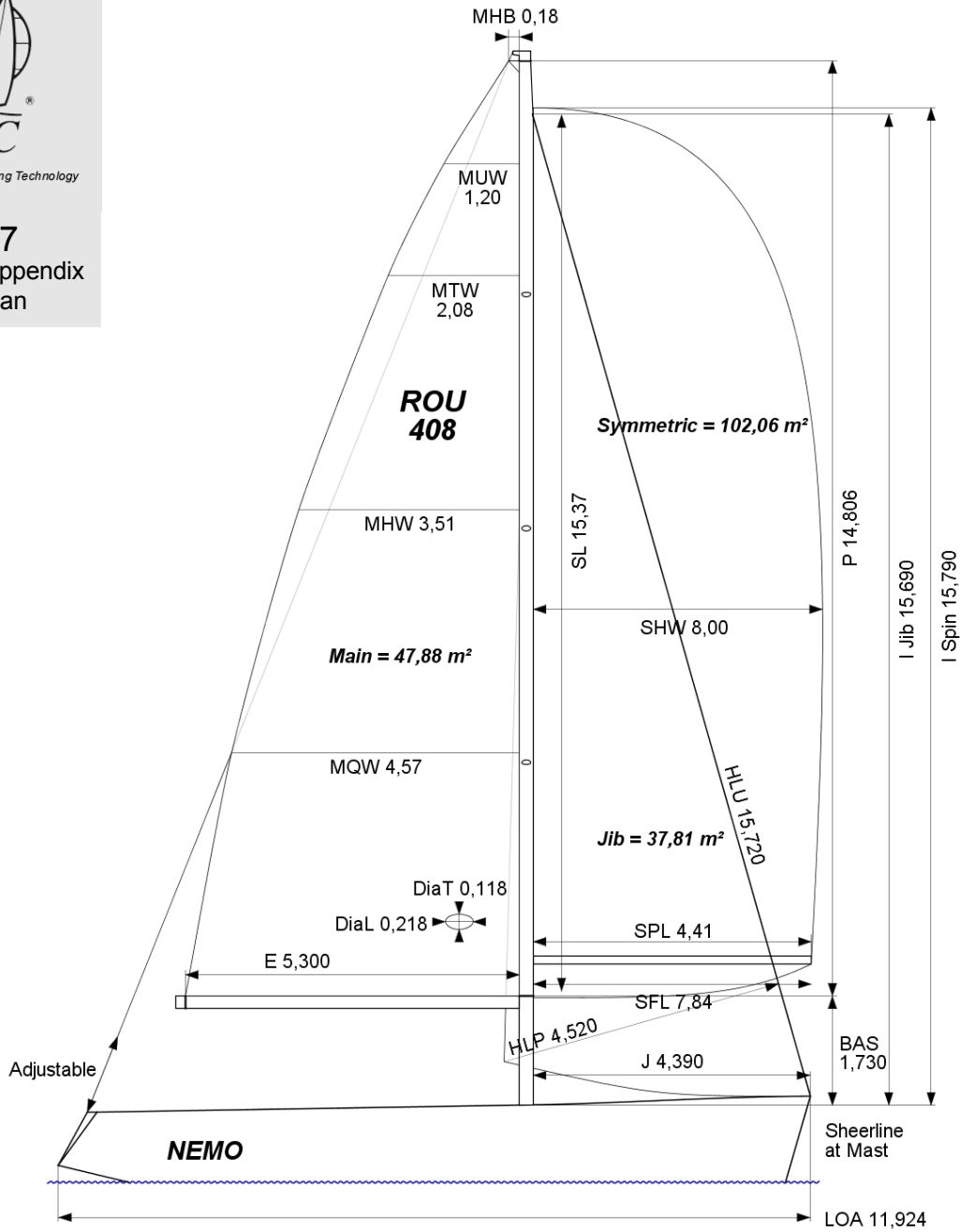


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2017  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ms1	0.180	1.20	2.08	3.51	4.57	47.88	A.p	23/05/2015	Quantum	Carbon						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
j1	0.13	0.75	1.37	2.48	3.51	4.52	15.72	103%	37.81			A.p	23/05/2015	Quantum	Carbon	
j2	0.13	0.70	1.27	2.34	3.42	4.48	15.72	102%	36.54							Unknow
j3	0.09	0.58	1.11	2.18	3.29	4.38	15.72	100%	34.59							Unknow
Storm	0.07	0.52	0.98	1.96	3.00	4.18	12.90	95%	26.10							Dacron
SYMMETRIC SPINNAKERS (2)																
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	15.23	15.23	15.23	7.88	8.20	100.82	A. Nita	10/05/2016		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				