

<b>BOAT</b> Name <b>Xanadu</b> Sail Nr <b>FIN-10677</b>	<b>GPH</b> <b>609.3</b>	<b>HULL</b> Length Overall <b>11.345m</b> Maximum Beam <b>3.468m</b> Displacement <b>6,805kg</b> Draft <b>2.031m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.055%</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>X-37</b> Designer <b>Niels Jeppesen</b> Builder <b>X-Yachts</b> Series <b>05/2004</b> Age Age Allowance <b>0.487%</b> Offset File <b>X37ND.OFF - 26/04/2005 10:46:14</b> Measurement by - <b>10/07/2020</b>		IMSL <b>10.249m</b> VCGD <b>0.088m</b> Sink <b>20.48kg/mm</b> RL <b>8.739m</b> VCGM <b>0.066m</b> WS <b>27.86m<sup>2</sup></b> LSM0 <b>10.233m</b> Displacement/Length ratio <b>6.3507</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>593.7</b>			<b>663.2</b>		
Time on Time	<b>1.0106</b>			<b>1.0178</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>691.9</b>	<b>541.2</b>	<b>487.8</b>	<b>893.1</b>	<b>665.4</b>	<b>583.1</b>
Time on Time	<b>0.9756</b>	<b>1.2472</b>	<b>1.3837</b>	<b>0.7558</b>	<b>1.0145</b>	<b>1.1577</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1016.4</b>	<b>846.3</b>	<b>752.1</b>	<b>714.3</b>	<b>700.0</b>	<b>693.8</b>	<b>681.5</b>
52°	<b>665.0</b>	<b>562.5</b>	<b>512.5</b>	<b>495.1</b>	<b>487.7</b>	<b>484.2</b>	<b>479.6</b>
60°	<b>628.2</b>	<b>537.0</b>	<b>497.9</b>	<b>482.2</b>	<b>473.8</b>	<b>469.7</b>	<b>466.2</b>
75°	<b>599.7</b>	<b>519.6</b>	<b>487.7</b>	<b>470.8</b>	<b>459.7</b>	<b>451.3</b>	<b>444.4</b>
90°	<b>605.5</b>	<b>519.9</b>	<b>484.3</b>	<b>467.8</b>	<b>452.7</b>	<b>439.4</b>	<b>421.4</b>
110°	<b>613.8</b>	<b>512.6</b>	<b>475.0</b>	<b>453.0</b>	<b>437.0</b>	<b>425.9</b>	<b>407.5</b>
120°	<b>630.5</b>	<b>521.9</b>	<b>479.3</b>	<b>455.0</b>	<b>432.4</b>	<b>412.3</b>	<b>390.1</b>
135°	<b>694.7</b>	<b>566.5</b>	<b>500.0</b>	<b>470.6</b>	<b>447.9</b>	<b>424.8</b>	<b>381.6</b>
150°	<b>822.7</b>	<b>658.0</b>	<b>557.3</b>	<b>499.5</b>	<b>471.9</b>	<b>450.6</b>	<b>408.1</b>
Run VMG	<b>950.0</b>	<b>759.8</b>	<b>643.2</b>	<b>568.2</b>	<b>517.1</b>	<b>482.7</b>	<b>440.2</b>

Selected Courses							
Windward / Leeward	<b>983.2</b>	<b>803.1</b>	<b>697.7</b>	<b>641.3</b>	<b>608.5</b>	<b>588.3</b>	<b>560.9</b>
Circular Random	<b>832.3</b>	<b>674.8</b>	<b>591.4</b>	<b>543.9</b>	<b>515.1</b>	<b>496.3</b>	<b>471.7</b>
Coastal / Long Distance	<b>979.9</b>	<b>754.3</b>	<b>629.9</b>	<b>561.8</b>	<b>525.6</b>	<b>496.9</b>	<b>451.3</b>
Non Spinnaker	<b>888.9</b>	<b>714.7</b>	<b>620.9</b>	<b>566.4</b>	<b>533.2</b>	<b>511.4</b>	<b>483.2</b>

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	<b>42.8°</b>	<b>41.3°</b>	<b>41.3°</b>	<b>40.1°</b>	<b>39.8°</b>	<b>39.8°</b>	<b>39.8°</b>
Beat VMG	<b>3.54</b>	<b>4.25</b>	<b>4.79</b>	<b>5.04</b>	<b>5.14</b>	<b>5.19</b>	<b>5.28</b>
52°	<b>5.41</b>	<b>6.40</b>	<b>7.02</b>	<b>7.27</b>	<b>7.38</b>	<b>7.44</b>	<b>7.51</b>
60°	<b>5.73</b>	<b>6.70</b>	<b>7.23</b>	<b>7.47</b>	<b>7.60</b>	<b>7.66</b>	<b>7.72</b>
75°	<b>6.00</b>	<b>6.93</b>	<b>7.38</b>	<b>7.65</b>	<b>7.83</b>	<b>7.98</b>	<b>8.10</b>
90°	<b>5.95</b>	<b>6.92</b>	<b>7.43</b>	<b>7.69</b>	<b>7.95</b>	<b>8.19</b>	<b>8.54</b>
110°	<b>5.87</b>	<b>7.02</b>	<b>7.58</b>	<b>7.95</b>	<b>8.24</b>	<b>8.45</b>	<b>8.83</b>
120°	<b>5.71</b>	<b>6.90</b>	<b>7.51</b>	<b>7.91</b>	<b>8.33</b>	<b>8.73</b>	<b>9.23</b>
135°	<b>5.18</b>	<b>6.35</b>	<b>7.20</b>	<b>7.65</b>	<b>8.04</b>	<b>8.47</b>	<b>9.43</b>
150°	<b>4.38</b>	<b>5.47</b>	<b>6.46</b>	<b>7.21</b>	<b>7.63</b>	<b>7.99</b>	<b>8.82</b>
Run VMG	<b>3.79</b>	<b>4.74</b>	<b>5.60</b>	<b>6.34</b>	<b>6.96</b>	<b>7.46</b>	<b>8.18</b>
Gybe Angles	<b>145.0°</b>	<b>149.0°</b>	<b>150.5°</b>	<b>157.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Certificate**

Number **10677**  
ORC Ref **03290000NUN**  
Issued On **04/08/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default **711kg**  
Maximum **763kg**  
Minimum\* **572kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>640.6</b>	<b>0.9366</b>
Non Spin OSN	<b>623.4</b>	<b>0.9624</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>4</b>

**Class Division Length**

CDL = **9.488**

**Storm Sails Areas**

Heavy Weather Jib **32.76**  
Storm Jib (JL=10.13) **12.14**  
Storm Trysail **13.15**

**Owner**

<b>BOAT</b>	
Name <b>Xanadu</b>	Sail Nr <b>FIN-10677</b>
File <b>L10677</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	

P <b>14.730</b>	E <b>5.100</b>	MDT1 <b>0.110</b>	MW <b>0.210</b>
IG <b>15.577</b>	J <b>4.340</b>	MDL1 <b>0.210</b>	GO <b>0.210</b>
ISP <b>15.577</b>	SFJ <b>0.000</b>	MDT2 <b>0.110</b>	BD <b>0.240</b>
BAS <b>1.767</b>	SPL <b>4.583</b>	MDL2 <b>0.175</b>	MWT <b>207.00</b>
FSD <b>0.034</b>	TPS	TL <b>0.850</b>	MCG <b>5.510</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Boom Inclining</b>		LCFD	
Flotation date <b>28/05/2019</b>		SG <b>1.0050</b>	
FFM <b>1.358</b>	FF <b>1.360</b>	SFFP <b>0.250</b>	
FAM <b>1.078</b>	FA <b>1.094</b>	SAFP <b>10.800</b>	
W1 <b>88.3</b>	PD1 <b>248.7</b>	WD <b>5.054</b>	
W2 <b>88.3</b>	PD2 <b>247.7</b>	GSA <b>1.0</b>	
W3 <b>88.3</b>	PD3 <b>248.4</b>	RSA <b>1.0</b>	
W4 <b>88.3</b>	PD4 <b>248.2</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.343 / 6.553</b>	
Maximum beam station from stem		<b>7.700</b>	
RM Measured		<b>141.6kg-m</b>	
RM Default		<b>166.6kg-m</b>	
Limit of positive stability / Stab.Index		<b>116.6° / 121.4</b>	
Freeboard at mast at 4.340		<b>1.168</b>	



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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.440</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.128</b>		
Twin Screw <b>No</b>	PIPA <b>0.0035</b>		
ST1 <b>0.042</b>	ST3 <b>0.180</b>	ST5 <b>0.300</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b>	EDL <b>2.420</b>	

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<b>COMMENTS</b>	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.17	1.20	2.10	3.41	4.29	45.91	47.00	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	15.40	15.40	15.40	8.57	7.64	107.59		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric</b>									
Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB), HS flying rated area = 33.80												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.14	0.79	1.42	2.49	3.50	4.48	15.53	37.47	Y	No	23/05/2018	Unknow	
0.14	0.79	1.41	2.48	3.50	4.48	15.53	37.40	Y	No	23/05/2018	Unknow	
0.08	0.59	1.12	2.16	3.27	4.42	14.69	32.32	Y	No	01/05/2018	Unknow	
0.06	0.49	0.94	1.85	2.82	3.80	13.30	25.08		Yes	01/05/2018	Polyest	

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>28/05/2019</b>				
Comment <b>Some waves from boats</b>				
<b>Internal Ballast total = 0.0</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

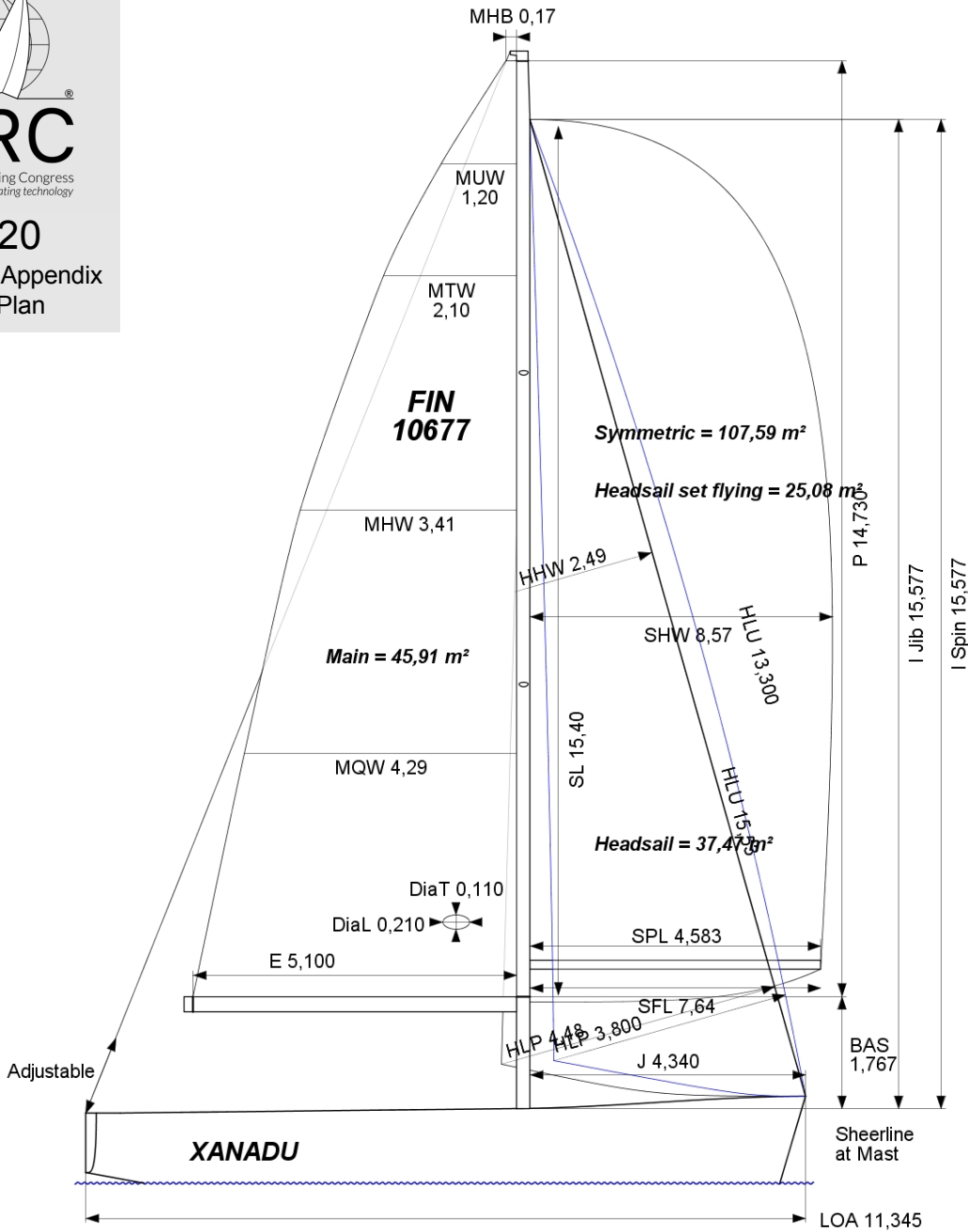
<b>MEASUREMENT INVENTORY</b>									
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn</b>	<b>Description</b>	
1	Tank Fuel			80.0	8.65		80.0	Full	
2	Tank Waste			65.0	2.70		0.0	Empty	
3	Tank Water			180.0	5.30		0.0	Empty	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>					
1	Battery	5.10		2*210 Ah					
2	Battery	7.30		70 Ah					
1	Misc	8.92		Wallas Heater					



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
MN18	0.17	1.20	2.10	3.41	4.29	45.92		10/07/2020	OneSails	Unknown	

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
JL18	0.14	0.79	1.42	2.49	3.50	4.48	15.53	103%	37.47	Y	No		23/05/2018	OneSails	Nylon	Unknow
JM18	0.14	0.79	1.41	2.48	3.50	4.48	15.53	103%	37.40	Y	No		23/05/2018	OneSails	Nylon	Unknow
JH18	0.08	0.59	1.12	2.16	3.27	4.42	14.69	102%	32.32	Y	No		01/05/2018	OneSails	Nylon	Unknow
SPISS	0.06	0.49	0.94	1.85	2.82	3.80	13.30	88%	25.08		Yes		01/05/2018	Onesails	Nylon	Polyst

**SYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2-18	15.40	15.40	15.40	8.57	7.64	107.60		01/05/2018	OneSails	Nylon	
S15-18	15.40	15.40	15.40	8.56	7.65	107.52		01/05/2018	OneSails	Nylon	
S3	14.93	14.93	14.93	6.90	7.00	86.10		29/05/2018		Nylon	Blue, mod

**ASYMMETRIC SPINNAKERS (0)**

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