

<b>BOAT</b> Name <b>FinX</b> Sail Nr <b>FIN-11850</b>	<b>GPH</b> <b>599.4</b>	<b>HULL</b> Length Overall <b>11.580m</b> Maximum Beam <b>3.670m</b> Displacement <b>7,461kg</b> Draft <b>2.136m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.184%</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>XP-38</b> Designer <b>Jeppesen</b> Builder <b>X-Yachts</b> Series <b>08/2011</b> Age <b>05/2015</b> Age Allowance <b>0.292%</b> Offset File <b>Xp38-21v.OFF - 25/04/2012 15:03:04</b> Measurement by - <b>25/07/2019</b>		IMSLS <b>10.920m</b> VCGD <b>0.168m</b> Sink <b>22.28kg/mm</b> RL <b>8.861m</b> VCGM <b>0.121m</b> WS <b>30.25m<sup>2</sup></b> LSM0 <b>10.764m</b> Displacement/Length ratio <b>5.9824</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>583.2</b>			<b>653.2</b>		
Time on Time	<b>1.0288</b>			<b>1.0334</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>683.8</b>	<b>531.2</b>	<b>477.5</b>	<b>884.0</b>	<b>655.7</b>	<b>572.9</b>
Time on Time	<b>0.9871</b>	<b>1.2708</b>	<b>1.4137</b>	<b>0.7636</b>	<b>1.0295</b>	<b>1.1783</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1026.6</b>	<b>846.8</b>	<b>751.3</b>	<b>709.4</b>	<b>693.3</b>	<b>687.3</b>	<b>671.4</b>
52°	<b>666.3</b>	<b>561.2</b>	<b>506.2</b>	<b>485.6</b>	<b>478.6</b>	<b>475.5</b>	<b>468.9</b>
60°	<b>627.2</b>	<b>533.3</b>	<b>489.3</b>	<b>471.4</b>	<b>464.3</b>	<b>460.9</b>	<b>456.5</b>
75°	<b>596.9</b>	<b>513.0</b>	<b>477.4</b>	<b>459.6</b>	<b>448.1</b>	<b>441.1</b>	<b>435.7</b>
90°	<b>602.1</b>	<b>511.3</b>	<b>476.2</b>	<b>457.0</b>	<b>442.0</b>	<b>428.7</b>	<b>409.5</b>
110°	<b>599.8</b>	<b>499.5</b>	<b>461.7</b>	<b>441.5</b>	<b>429.5</b>	<b>418.6</b>	<b>399.2</b>
120°	<b>614.1</b>	<b>507.9</b>	<b>465.3</b>	<b>441.4</b>	<b>419.3</b>	<b>403.2</b>	<b>381.4</b>
135°	<b>678.7</b>	<b>550.7</b>	<b>484.8</b>	<b>455.7</b>	<b>433.1</b>	<b>409.7</b>	<b>363.7</b>
150°	<b>800.8</b>	<b>638.9</b>	<b>541.1</b>	<b>485.2</b>	<b>457.6</b>	<b>436.3</b>	<b>392.9</b>
Run VMG	<b>924.7</b>	<b>737.7</b>	<b>624.8</b>	<b>553.5</b>	<b>505.3</b>	<b>470.1</b>	<b>427.5</b>

**Certificate**  
Number **11850**  
ORC Ref **03290000IMN**  
Issued On **23/05/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**  
Default **765kg**  
Maximum **700kg**  
Minimum\* **525kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **635.9 0.9435**  
Non Spin OSN **618.2 0.9705**

<b>Selected Courses</b>							
Windward / Leeward	<b>975.7</b>	<b>792.3</b>	<b>688.1</b>	<b>631.4</b>	<b>599.3</b>	<b>578.7</b>	<b>549.4</b>
Circular Random	<b>822.3</b>	<b>664.9</b>	<b>581.4</b>	<b>533.8</b>	<b>504.9</b>	<b>485.9</b>	<b>460.4</b>
Coastal / Long Distance	<b>970.6</b>	<b>743.4</b>	<b>620.1</b>	<b>551.2</b>	<b>515.0</b>	<b>487.1</b>	<b>440.6</b>
Non Spinnaker	<b>889.4</b>	<b>712.0</b>	<b>615.9</b>	<b>559.8</b>	<b>525.2</b>	<b>502.5</b>	<b>473.1</b>

**Sails Limitations**  
Headsails **6** Spinnakers **4**

<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>43.5°</b>	<b>41.6°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>40.1°</b>	<b>40.1°</b>	<b>39.8°</b>
Beat VMG	<b>3.51</b>	<b>4.25</b>	<b>4.79</b>	<b>5.07</b>	<b>5.19</b>	<b>5.24</b>	<b>5.36</b>
52°	<b>5.40</b>	<b>6.41</b>	<b>7.11</b>	<b>7.41</b>	<b>7.52</b>	<b>7.57</b>	<b>7.68</b>
60°	<b>5.74</b>	<b>6.75</b>	<b>7.36</b>	<b>7.64</b>	<b>7.75</b>	<b>7.81</b>	<b>7.89</b>
75°	<b>6.03</b>	<b>7.02</b>	<b>7.54</b>	<b>7.83</b>	<b>8.03</b>	<b>8.16</b>	<b>8.26</b>
90°	<b>5.98</b>	<b>7.04</b>	<b>7.56</b>	<b>7.88</b>	<b>8.14</b>	<b>8.40</b>	<b>8.79</b>
110°	<b>6.00</b>	<b>7.21</b>	<b>7.80</b>	<b>8.15</b>	<b>8.38</b>	<b>8.60</b>	<b>9.02</b>
120°	<b>5.86</b>	<b>7.09</b>	<b>7.74</b>	<b>8.16</b>	<b>8.59</b>	<b>8.93</b>	<b>9.44</b>
135°	<b>5.30</b>	<b>6.54</b>	<b>7.42</b>	<b>7.90</b>	<b>8.31</b>	<b>8.79</b>	<b>9.90</b>
150°	<b>4.50</b>	<b>5.63</b>	<b>6.65</b>	<b>7.42</b>	<b>7.87</b>	<b>8.25</b>	<b>9.16</b>
Run VMG	<b>3.89</b>	<b>4.88</b>	<b>5.76</b>	<b>6.50</b>	<b>7.13</b>	<b>7.66</b>	<b>8.42</b>
Gybe Angles	<b>144.0°</b>	<b>148.0°</b>	<b>150.0°</b>	<b>156.0°</b>	<b>172.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **9.880**

**Storm Sails Areas**  
Heavy Weather Jib **37.11**  
Storm Jib (JL=10.78) **13.75**  
Storm Trysail **14.04**

**Owner**

<b>BOAT</b>	
Name <b>FinX</b>	Sail Nr <b>FIN-11850</b>
File <b>L11850</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>15.200</b>	E <b>5.275</b>	MDT1 <b>0.125</b>	MW <b>0.220</b>
IG <b>16.368</b>	J <b>4.325</b>	MDL1 <b>0.221</b>	GO <b>0.275</b>
ISP <b>17.629</b>	SFJ <b>0.280</b>	MDT2 <b>0.125</b>	BD <b>0.249</b>
BAS <b>1.779</b>	SPL <b>4.615</b>	MDL2 <b>0.184</b>	MWT <b>259.30</b>
FSD <b>0.035</b>	TPS <b>4.325</b>	TL <b>0.620</b>	MCG <b>5.097</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>25/04/2018</b>		SG <b>1.0050</b>	
FFM <b>1.379</b>	FF <b>1.387</b>	SFFP <b>0.690</b>	
FAM <b>1.121</b>	FA <b>1.126</b>	SAFP <b>11.545</b>	
W1 <b>90.2</b>	PD1 <b>592.8</b>	WD <b>12.235</b>	
W2 <b>90.2</b>	PD2 <b>588.5</b>	GSA <b>1.0</b>	
W3 <b>90.2</b>	PD3 <b>595.1</b>	RSA <b>1.0</b>	
W4 <b>90.2</b>	PD4 <b>585.5</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.498 / 6.742</b>	
Maximum beam station from stem		<b>7.620</b>	
RM Measured		<b>147.2kg-m</b>	
RM Default		<b>179.2kg-m</b>	
Limit of positive stability / Stab.Index		<b>113.7° / 118.0</b>	
Freeboard at mast at 4.605		<b>1.177</b>	



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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.420</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.115</b>		
Twin Screw <b>No</b>	PIPA <b>0.0034</b>		
ST1 <b>0.042</b>	ST3 <b>0.180</b>	ST5 <b>0.250</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b>	EDL <b>2.460</b>	

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<b>COMMENTS</b>	
ADVERTISING LICENSE 2019 BY FSBF Propeller installation to be checked	

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

<b>CENTERBOARD</b>	
N/A	



<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>	
	0.20	1.09	1.89	3.29	4.35	46.70	47.51	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>				
	17.04	17.04	17.04	8.72	8.31	122.66		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)												
<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>
0.15	0.74	1.38	2.50	3.54	4.53	16.00	38.72	Y	No	12/03/2018	Carbon	3Di
0.12	0.74	1.33	2.43	3.50	4.61	16.10	38.61	Y	No	25/07/2019	Unknow	
0.12	0.68	1.25	2.36	3.49	4.61	16.10	37.99	Y	No	09/11/2018	Unknow	
0.13	0.67	1.23	2.24	3.31	4.41	12.87	29.03	Y	No	17/06/2019	Carbon	Recut

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>25/04/2018</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
1	Engine			Yanmar 38
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

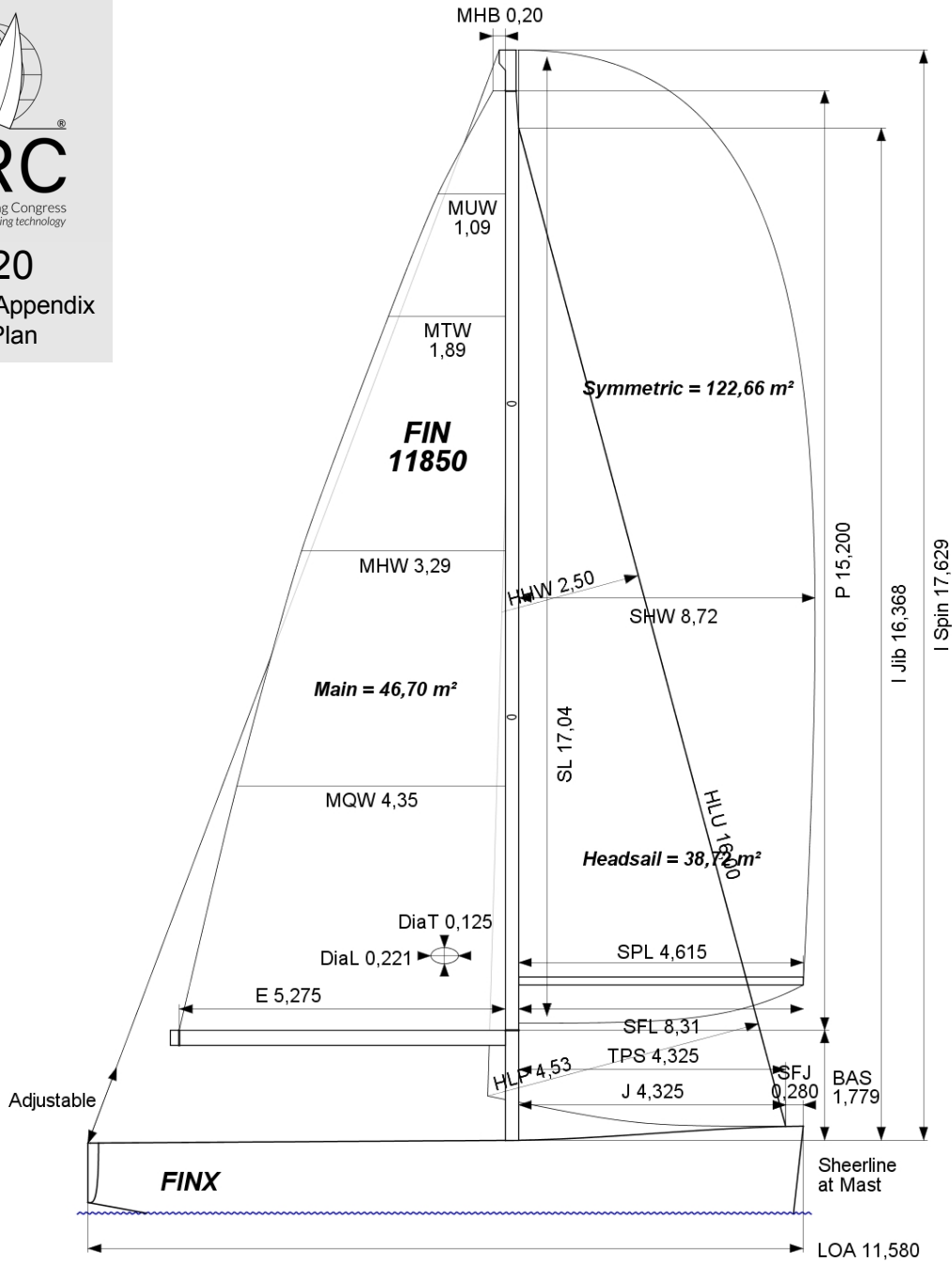
<b>MEASUREMENT INVENTORY</b>									
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condn</b>	<b>Description</b>	
1	Tank	Water	Plastic	250.0	5.03		0-0	Empty	
2	Tank	Fuel	RST	175.0	5.03		0-0	Empty	
3	Tank	Waste	Plastic	55.0	8.93		0-0	Empty	
4	Tank	Boiler	RST	30.0	8.43				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>					
1	Battery	8.63		Engine 1 * 60 Ah					
2	Battery	2.73		Service 3 * 70 Ah					



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.20	1.09	1.89	3.29	4.35	46.71		25/07/2019	North Sails	Unknown						
1	0.15	0.97	1.79	3.26	4.46	46.45		12/03/2018	Elvström	Carbon						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
L/M	0.15	0.74	1.38	2.50	3.54	4.53	16.00	105%	38.72	Y	No		12/03/2018	North Sails	Carbon	3Di
J1	0.12	0.74	1.33	2.43	3.50	4.61	16.10	107%	38.61	Y	No		25/07/2019	North Sails	Unknow	
J	0.12	0.68	1.25	2.36	3.49	4.61	16.10	107%	37.99	Y	No		09/11/2018	North Sails	Unknow	
G4	0.13	0.67	1.23	2.24	3.31	4.41	12.87	102%	29.03	Y	No		17/06/2019	WB-Sails	Carbon	Recut
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	17.04	17.04	17.04	8.72	8.31	122.66		31/08/2018	North Sails	Unknown						
S2	17.03	17.03	17.03	8.22	7.67	115.10		12/03/2018	WB-Sails	Nylon	Blue					
S3	16.05	16.05	16.05	8.18	7.18	109.41		13/12/2017	North Sails	Nylon	Blue					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				