

<b>BOAT</b>
Name <b>EXTREME</b> Sail Nr <b>LTU 1620</b>

<b>GPH</b>
<b>622,2</b>

<b>HULL</b>			
Length Overall	<b>10,600m</b>		
Maximum Beam	<b>3,250m</b>		
Displacement	<b>5 098kg</b>		
Draft	<b>2,208m</b>		
IMS Reg. Division	<b>Cruiser/Racer</b>		
Dynamic Allowance	<b>0,088%</b>		
Fwd Accommodation	<b>Yes</b>		
Hull Construction	<b>Cored</b>		
Carbon Rudder	<b>No</b>		
Crew Arm Extension			
IMSL	<b>9,656m</b>	VCGD	<b>0,109m</b> Sink <b>18,17kg/mm</b>
RL	<b>8,741m</b>	VCGM	<b>0,064m</b> WS <b>23,97m<sup>2</sup></b>
LSM0	<b>9,551m</b> Displacement/Length ratio		<b>5,8513</b>



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**2016**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>X-35 OD</b>
Designer <b>Jeppessen</b>
Builder <b>X Yachts</b>
Series <b>09-2005</b>
Age <b>05-2008</b>
Age Allowance <b>0,358%</b>
Offset File <b>X35.off - 2012-07-17 13:10:56</b>
Measurement by <b>G. Misiunas - 03-05-2015</b>

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<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b> COASTAL / LONG DISTANCE			<b>INSHORE</b> WINDWARD / LEEWARD		
Time On Distance	<b>604,8</b>			<b>673,4</b>		
Time On Time	<b>0,9921</b>			<b>1,0023</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,681</b>	<b>43,3</b>		<b>0,847</b>	<b>203,4</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9438</b>	<b>1,2256</b>	<b>1,3812</b>	<b>0,7286</b>	<b>0,9965</b>	<b>1,1593</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1057,1</b>	<b>878,3</b>	<b>769,5</b>	<b>714,2</b>	<b>691,5</b>	<b>679,9</b>	<b>663,3</b>
52°	<b>689,2</b>	<b>579,3</b>	<b>521,4</b>	<b>499,3</b>	<b>491,6</b>	<b>487,5</b>	<b>480,8</b>
60°	<b>648,1</b>	<b>549,0</b>	<b>505,8</b>	<b>486,7</b>	<b>478,1</b>	<b>473,5</b>	<b>467,7</b>
75°	<b>614,1</b>	<b>527,9</b>	<b>494,8</b>	<b>474,9</b>	<b>459,5</b>	<b>450,2</b>	<b>443,0</b>
90°	<b>616,9</b>	<b>529,6</b>	<b>492,0</b>	<b>476,1</b>	<b>457,9</b>	<b>439,9</b>	<b>417,4</b>
110°	<b>635,6</b>	<b>527,7</b>	<b>487,8</b>	<b>461,6</b>	<b>442,5</b>	<b>430,3</b>	<b>410,0</b>
120°	<b>654,4</b>	<b>539,8</b>	<b>494,0</b>	<b>467,6</b>	<b>441,2</b>	<b>416,5</b>	<b>392,1</b>
135°	<b>722,3</b>	<b>587,6</b>	<b>516,8</b>	<b>485,4</b>	<b>461,2</b>	<b>436,1</b>	<b>386,6</b>
150°	<b>853,9</b>	<b>679,2</b>	<b>575,1</b>	<b>515,0</b>	<b>486,0</b>	<b>463,4</b>	<b>417,3</b>
Run VMG	<b>986,0</b>	<b>784,2</b>	<b>663,3</b>	<b>585,0</b>	<b>530,7</b>	<b>496,0</b>	<b>451,2</b>

<b>Certificate</b>
Number <b>LT1620</b>
ORC Ref <b>ltu00000350</b>
Issued On <b>2016-05-31</b>
VPP Ver. <b>2016 1.01</b>
Valid until <b>2016-12-31</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1021,5</b>	<b>831,3</b>	<b>716,4</b>	<b>649,6</b>	<b>611,1</b>	<b>587,9</b>	<b>557,3</b>
Circular Random	<b>857,8</b>	<b>692,5</b>	<b>603,6</b>	<b>551,8</b>	<b>519,8</b>	<b>498,5</b>	<b>470,3</b>
Ocean for PCS	<b>1051,1</b>	<b>812,1</b>	<b>677,1</b>	<b>594,6</b>	<b>541,1</b>	<b>503,8</b>	<b>452,4</b>
Non Spinnaker	<b>912,1</b>	<b>730,9</b>	<b>632,3</b>	<b>574,1</b>	<b>537,9</b>	<b>514,0</b>	<b>483,3</b>

<b>Crew Weight</b>	
Declared	<b>700kg</b>
Default*	<b>645kg</b>
Non Manual Pwr	<b>No</b>

<b>Special Scoring</b>	
	ToD ToT
Non Spin GPH	<b>652,5 0,9195</b>
Non Spin OSN	<b>633,5 0,9472</b>
N/S Perf. Line	<b>16,1 0,608</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>43,3°</b>	<b>42,0°</b>	<b>41,7°</b>	<b>39,6°</b>	<b>38,6°</b>	<b>38,0°</b>	<b>37,4°</b>
Beat VMG	<b>3,41</b>	<b>4,10</b>	<b>4,68</b>	<b>5,04</b>	<b>5,21</b>	<b>5,30</b>	<b>5,43</b>
52°	<b>5,22</b>	<b>6,21</b>	<b>6,90</b>	<b>7,21</b>	<b>7,32</b>	<b>7,39</b>	<b>7,49</b>
60°	<b>5,55</b>	<b>6,56</b>	<b>7,12</b>	<b>7,40</b>	<b>7,53</b>	<b>7,60</b>	<b>7,70</b>
75°	<b>5,86</b>	<b>6,82</b>	<b>7,28</b>	<b>7,58</b>	<b>7,83</b>	<b>8,00</b>	<b>8,13</b>
90°	<b>5,84</b>	<b>6,80</b>	<b>7,32</b>	<b>7,56</b>	<b>7,86</b>	<b>8,18</b>	<b>8,62</b>
110°	<b>5,66</b>	<b>6,82</b>	<b>7,38</b>	<b>7,80</b>	<b>8,14</b>	<b>8,37</b>	<b>8,78</b>
120°	<b>5,50</b>	<b>6,67</b>	<b>7,29</b>	<b>7,70</b>	<b>8,16</b>	<b>8,64</b>	<b>9,18</b>
135°	<b>4,98</b>	<b>6,13</b>	<b>6,97</b>	<b>7,42</b>	<b>7,81</b>	<b>8,26</b>	<b>9,31</b>
150°	<b>4,22</b>	<b>5,30</b>	<b>6,26</b>	<b>6,99</b>	<b>7,41</b>	<b>7,77</b>	<b>8,63</b>
Run VMG	<b>3,65</b>	<b>4,59</b>	<b>5,43</b>	<b>6,15</b>	<b>6,78</b>	<b>7,26</b>	<b>7,98</b>
Gybe Angles	<b>145,1°</b>	<b>149,7°</b>	<b>151,2°</b>	<b>157,7°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>

<b>Sails Limitations</b>	
Headsails	Spinnakers
<b>6</b>	<b>3</b>

<b>Class Division Length</b>
<b>CDL = 9,199</b>

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>28,80</b>
Storm Jib (JL=9,49)	<b>10,66</b>
Storm Trysail	<b>10,58</b>

**Owner**  
Aistis Kalanavicius  
Ugnies 1  
Noreikiskiu km  
Kauno raj.

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

<b>BOAT</b>	
Name <b>EXTREME</b>	Sail Nr <b>LTU 1620</b>
File <b>Extreme LTU1620</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>03-05-2015</b>		SG <b>1,000</b>
FFM <b>1,262</b>	FF <b>1,271</b>	SFFP <b>0,075</b>
FAM <b>0,955</b>	FA <b>0,961</b>	SAFP <b>10,275</b>
W1 <b>131,60</b>	PD1 <b>88,0</b>	WD <b>4,120</b>
W2 <b>75,700</b>	PD2 <b>46,3</b>	GSA <b>6,0</b>
W3 <b>131,60</b>	PD3 <b>80,3</b>	RSA <b>6,0</b>
W4 <b>75,700</b>	PD4 <b>56,0</b>	PLM <b>2000,0</b>
LCF from stem on CL / on sheer		<b>5,984 / 6,180</b>
Maximum beam station from stem		<b>7,300</b>
RM Measured		<b>112,5kg·m</b>
RM Default		<b>126,3kg·m</b>
Limit of positive stability / Stab.Index		<b>113,5° / 116,2</b>
Freeboard at mast at 4,185		<b>1,068</b>

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</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>13,290</b>	E <b>4,550</b>	MDT1 <b>0,115</b>	MW <b>0,174</b>
IG <b>14,500</b>	J <b>4,185</b>	MDL1 <b>0,175</b>	GO <b>0,204</b>
ISP <b>14,530</b>	SFJ <b>0,000</b>	MDT2 <b>0,115</b>	BD <b>0,220</b>
BAS <b>1,745</b>	SPL <b>4,170</b>	MDL2 <b>0,125</b>	MWT <b>156,00</b>
FSP <b>0,070</b>	TPS	TL <b>1,300</b>	MCG <b>4,600</b>

<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>0,128</b>	
Twin Screw <b>No</b>	PIPA <b>0,0033</b>	
ST1 <b>0,042</b>	ST3 <b>0,180</b>	ST5 <b>0,255</b>
ST2 <b>0,180</b>	ST4 <b>0,112</b>	EDL <b>2,390</b>


<b>COMMENTS</b>	
Fixed additional ballast 350 kg.	

<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
	0,350	1,08	1,80	2,97	3,84	
Symmetric	SLU	SLE	SL	SHW	SFL	91,17 SL · (SFL + 4·SHW) / 6
	14,35	14,35	14,35	7,69	7,36	
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	0,67	1,25	2,31	3,36	4,45	14,56	33,38	Y		26-04-2016	Twaron	
0,11	0,67	1,24	2,32	3,36	4,42	14,49	33,14	Y		26-04-2016	Twaron	
0,10	0,46	0,90	1,79	2,78	3,88	14,07	26,29	Y		03-05-2015	Unknow	




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# 2016

## IMS Measurement Certificate

**Certificate**

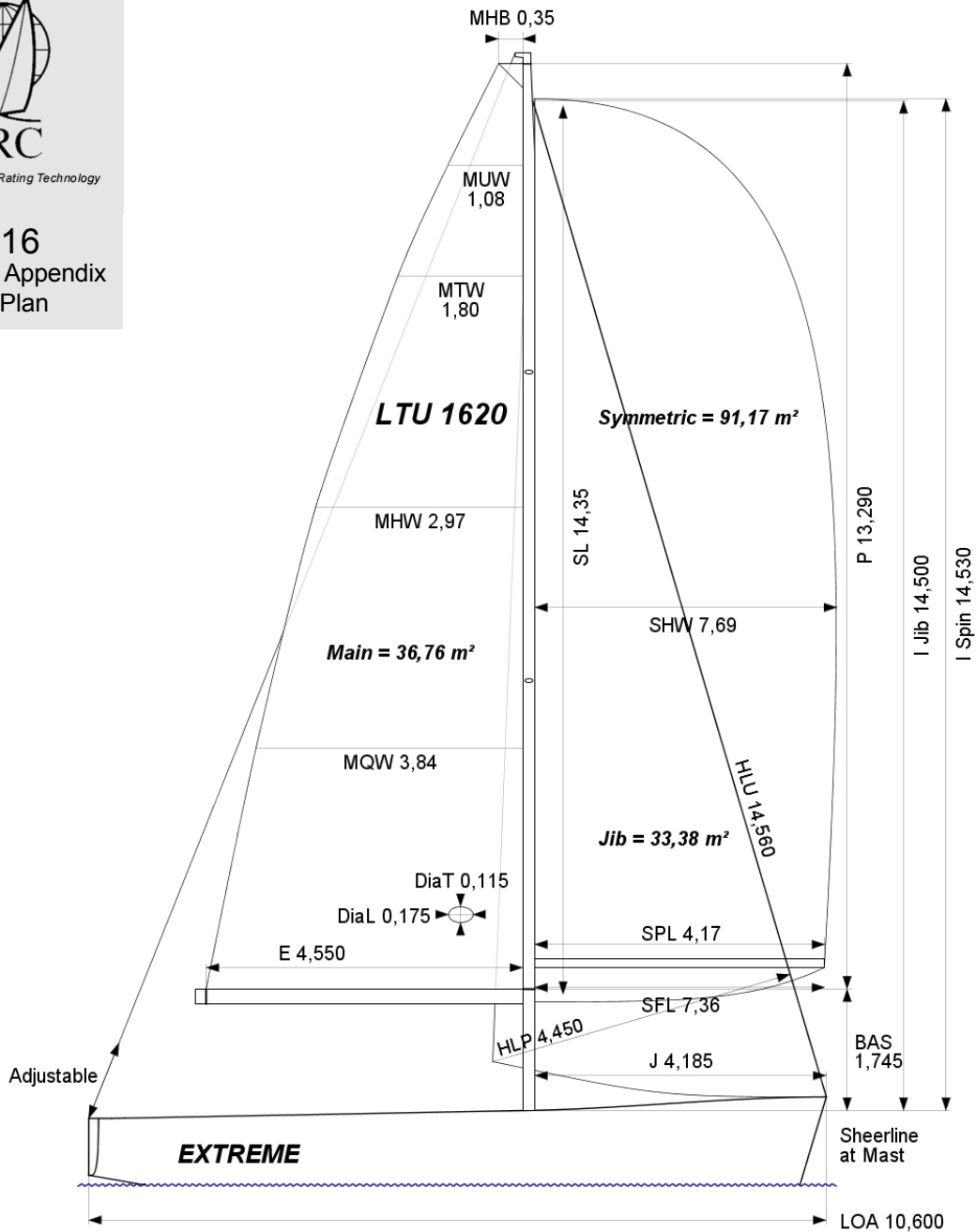
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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,350	1,08	1,80	2,97	3,84	36,76	SLO03 Gale	26-04-2016	One Sails	Twaron	

**HEADSAILS**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,13	0,67	1,25	2,31	3,36	4,45	14,56	106%	33,38	Y		SLO03	26-04-2016	One Sails	Twaron	
1	0,11	0,67	1,24	2,32	3,36	4,42	14,49	106%	33,14	Y		SLO03	26-04-2016	One Sails	Twaron	
J7	0,10	0,46	0,90	1,79	2,78	3,88	14,07	93%	26,29	Y		G.	03-05-2015		Unknown	

**SYMMETRIC SPINNAKERS**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	14,35	14,35	14,35	7,69	7,36	91,17	SLO03 Gale	26-04-2016	One Sails	Nylon	
2	13,90	13,90	13,90	5,90	6,89	70,64	SLO03 Gale	26-04-2016	One Sails	Nylon	

**ASYMMETRIC SPINNAKERS**

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