

<b>BOAT</b> Name <b>JAZZ</b> Sail Nr <b>EST 465</b>	<b>GPH</b> <b>645,9</b>	<b>HULL</b> Length Overall <b>9,980m</b> Maximum Beam <b>3,372m</b> Displacement <b>4 518kg</b> Draft <b>1,994m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,206%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension IMSL <b>9,076m</b> VCGD <b>-0,182m</b> Sink <b>16,32kg/mm</b> RL <b>7,968m</b> VCGM <b>-0,162m</b> WS <b>21,96m<sup>2</sup></b> LSMO <b>8,929m</b> Displacement/Length ratio <b>6,3466</b>
<b>GENERAL</b> Class <b>First 34.7</b> Designer <b>Farr</b> Builder <b>Beneteau</b> Series <b>10.2005</b> Age <b>05.2007</b> Age Allowance <b>0,390%</b> Offset File <b>F235.OFF - 27.07.2006 16:07:34</b> Measurement by <b>A.Tetsmann/V.Rosme - 03.07.2017</b>		



**2017**  
ORC International  
Certificate

**Rating Office**  
EYU  
Regati 1  
11911, Tallinn  
Estonia

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	<b>626,8</b>			<b>698,9</b>		
Time On Time	<b>0,9572</b>			<b>0,9658</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>746,5</b>	<b>571,1</b>	<b>502,5</b>	<b>967,5</b>	<b>705,0</b>	<b>602,6</b>
Time on Time	<b>0,9042</b>	<b>1,1820</b>	<b>1,3432</b>	<b>0,6977</b>	<b>0,9574</b>	<b>1,1202</b>

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1113,4</b>	<b>923,2</b>	<b>816,7</b>	<b>748,1</b>	<b>718,5</b>	<b>705,1</b>	<b>695,1</b>
52°	<b>725,3</b>	<b>607,3</b>	<b>546,3</b>	<b>518,1</b>	<b>504,6</b>	<b>499,1</b>	<b>495,5</b>
60°	<b>681,7</b>	<b>573,9</b>	<b>527,3</b>	<b>504,7</b>	<b>490,4</b>	<b>482,8</b>	<b>477,5</b>
75°	<b>646,0</b>	<b>550,5</b>	<b>513,5</b>	<b>493,2</b>	<b>475,1</b>	<b>459,5</b>	<b>444,9</b>
90°	<b>648,0</b>	<b>549,8</b>	<b>505,2</b>	<b>482,7</b>	<b>472,3</b>	<b>454,7</b>	<b>423,0</b>
110°	<b>658,4</b>	<b>544,7</b>	<b>502,3</b>	<b>475,5</b>	<b>448,6</b>	<b>429,4</b>	<b>408,3</b>
120°	<b>678,8</b>	<b>558,1</b>	<b>508,8</b>	<b>481,9</b>	<b>455,6</b>	<b>429,8</b>	<b>389,3</b>
135°	<b>750,1</b>	<b>609,1</b>	<b>532,5</b>	<b>499,4</b>	<b>474,9</b>	<b>449,7</b>	<b>402,1</b>
150°	<b>885,6</b>	<b>702,1</b>	<b>593,4</b>	<b>529,5</b>	<b>499,4</b>	<b>476,4</b>	<b>430,6</b>
Run VMG	<b>1022,6</b>	<b>810,8</b>	<b>684,3</b>	<b>600,8</b>	<b>543,8</b>	<b>508,7</b>	<b>463,4</b>

**Certificate**  
Number **EST465**  
ORC Ref **EST00001504**  
Issued On **16.07.2017**  
VPP Ver. **2017 1.00**  
Valid until **31.12.2017**

**Crew Weight**  
Declared **755kg**  
Default\* **586kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>649,5</b>	<b>0,9238</b>
Double H.OSN	<b>632,4</b>	<b>0,9488</b>
Non Spin GPH	<b>677,9</b>	<b>0,8851</b>
Non Spin OSN	<b>656,2</b>	<b>0,9144</b>

Selected Courses							
Windward / Leeward	<b>1068,0</b>	<b>867,0</b>	<b>750,5</b>	<b>674,5</b>	<b>631,1</b>	<b>606,9</b>	<b>579,2</b>
Circular Random	<b>895,1</b>	<b>720,9</b>	<b>626,6</b>	<b>571,0</b>	<b>536,3</b>	<b>513,2</b>	<b>483,4</b>
Ocean for PCS	<b>1096,8</b>	<b>845,7</b>	<b>703,3</b>	<b>615,7</b>	<b>558,3</b>	<b>517,8</b>	<b>460,5</b>
Non Spinnaker	<b>951,6</b>	<b>761,0</b>	<b>656,7</b>	<b>594,8</b>	<b>556,0</b>	<b>530,5</b>	<b>499,0</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>3</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>43,3°</b>	<b>42,0°</b>	<b>42,1°</b>	<b>40,5°</b>	<b>39,6°</b>	<b>39,0°</b>	<b>38,7°</b>
Beat VMG	<b>3,23</b>	<b>3,90</b>	<b>4,41</b>	<b>4,81</b>	<b>5,01</b>	<b>5,11</b>	<b>5,18</b>
52°	<b>4,96</b>	<b>5,93</b>	<b>6,59</b>	<b>6,95</b>	<b>7,13</b>	<b>7,21</b>	<b>7,27</b>
60°	<b>5,28</b>	<b>6,27</b>	<b>6,83</b>	<b>7,13</b>	<b>7,34</b>	<b>7,46</b>	<b>7,54</b>
75°	<b>5,57</b>	<b>6,54</b>	<b>7,01</b>	<b>7,30</b>	<b>7,58</b>	<b>7,84</b>	<b>8,09</b>
90°	<b>5,56</b>	<b>6,55</b>	<b>7,13</b>	<b>7,46</b>	<b>7,62</b>	<b>7,92</b>	<b>8,51</b>
110°	<b>5,47</b>	<b>6,61</b>	<b>7,17</b>	<b>7,57</b>	<b>8,03</b>	<b>8,38</b>	<b>8,82</b>
120°	<b>5,30</b>	<b>6,45</b>	<b>7,08</b>	<b>7,47</b>	<b>7,90</b>	<b>8,38</b>	<b>9,25</b>
135°	<b>4,80</b>	<b>5,91</b>	<b>6,76</b>	<b>7,21</b>	<b>7,58</b>	<b>8,00</b>	<b>8,95</b>
150°	<b>4,06</b>	<b>5,13</b>	<b>6,07</b>	<b>6,80</b>	<b>7,21</b>	<b>7,56</b>	<b>8,36</b>
Run VMG	<b>3,52</b>	<b>4,44</b>	<b>5,26</b>	<b>5,99</b>	<b>6,62</b>	<b>7,08</b>	<b>7,77</b>
Gybe Angles	<b>145,9°</b>	<b>150,3°</b>	<b>151,4°</b>	<b>158,2°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>

**Class Division Length**  
CDL = **8,523**

**Storm Sails Areas**

Heavy Weather Jib	<b>23,70</b>
Storm Jib (JL=8,61)	<b>8,78</b>
Storm Trysail	<b>9,90</b>

<b>BOAT</b>	
Name <b>JAZZ</b>	Sail Nr <b>EST 465</b>
File <b>Est0465</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>03.07.2017</b>		SG <b>1,0000</b>	
FFM <b>1,293</b>	FF <b>1,302</b>	SFFP <b>0,172</b>	
FAM <b>1,045</b>	FA <b>1,051</b>	SAFP <b>9,530</b>	
W1 <b>55,0</b>	PD1 <b>183,0</b>	WD <b>10,040</b>	
W2 <b>55,0</b>	PD2 <b>181,0</b>	GSA <b>12,6</b>	
W3 <b>55,0</b>	PD3 <b>183,0</b>	RSA <b>4298,7</b>	
W4 <b>55,0</b>	PD4 <b>182,0</b>	PLM <b>2005,0</b>	
LCF from stem on CL / on sheer		<b>5,370 / 5,604</b>	
Maximum beam station from stem		<b>6,642</b>	
RM Measured		<b>106,0kg·m</b>	
RM Default		<b>98,0kg·m</b>	
Limit of positive stability / Stab.Index		<b>131,0° / 130,2</b>	
Freeboard at mast at 3,645		<b>1,169</b>	



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**IMS Measurement Certificate**

<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>Yes</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>12,650</b>	E <b>4,470</b>	MDT1 <b>0,103</b>	MW <b>0,172</b>
IG <b>13,160</b>	J <b>3,645</b>	MDL1 <b>0,172</b>	GO <b>0,197</b>
ISP <b>13,300</b>	SFJ <b>0,000</b>	MDT2 <b>0,103</b>	BD <b>0,130</b>
BAS <b>1,540</b>	SPL <b>3,700</b>	MDL2 <b>0,140</b>	MWT <b>116,00</b>
FSP <b>0,066</b>	TPS	TL <b>0,850</b>	MCG <b>4,440</b>

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,410</b>	
Type <b>Folding 2 blades</b>	PBW <b>0,118</b>	
Twin Screw <b>No</b>	PIPA <b>0,0027</b>	
ST1 <b>0,035</b>	ST3	ST5 <b>0,118</b>
ST2	ST4 <b>0,100</b>	EDL <b>1,800</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	
	0,170	0,94	1,66	2,84	3,67	
						Area Area (r) Formula
						33,21 33,85 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	13,35	13,35	13,35	7,02	6,80	
						77,61 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
0,12	0,65	1,20	2,16	3,01	3,79	13,20	27,21	Y		26.04.2017	Unknow	Light 2017
0,11	0,60	1,10	2,05	2,95	3,73	12,90	25,68	Y		29.06.2016	Carbon	3Di_medium_2015
0,12	0,56	1,03	1,94	2,88	3,79	13,06	25,39	Y		06.06.2012	Unknow	Heavy 2012
0,11	0,59	1,09	2,02	2,90	3,71	12,90	25,37	Y		08.07.2015	Unknow	3Di_medium_2012

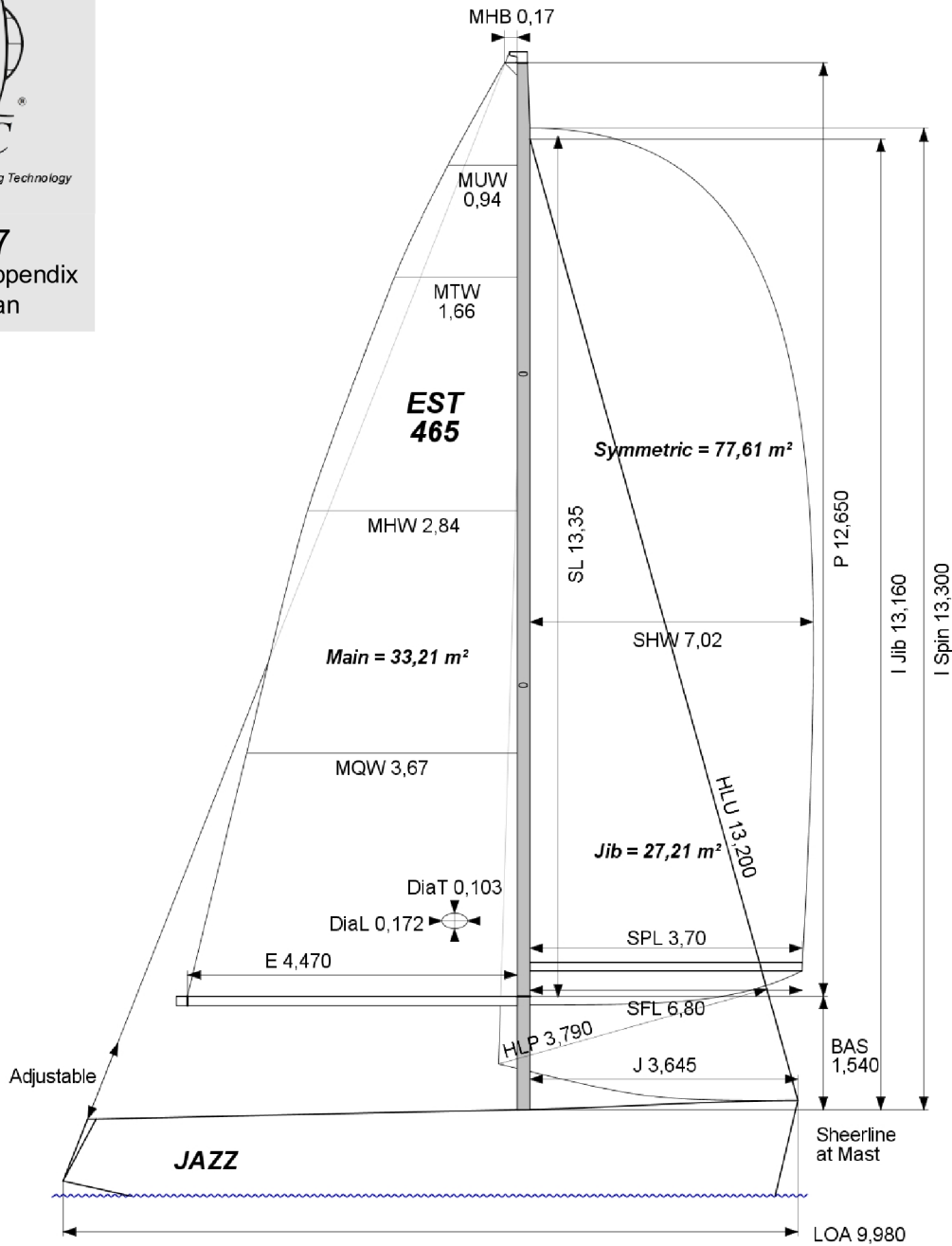
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>A Tetsmann EST 1</b>				
Date <b>03.07.2017</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Yanmar	3YM20	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<b>MEASUREMENT INVENTORY</b>							
<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 Description</i>
1	Tank	Water	PVC	100,0	4,00		0,0 Water tank, stb.
2	Tank	Fuel	PVC	60,0	7,55		5,0 Fuel tank, center
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
1	Battery		3,70	Battery 70Ah, ports.			
2	Battery		3,95	Battery 70Ah, ports.			
1	Misc		6,90	Boiler 25BX Quickmatic, ports.			



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,170	0,94	1,66	2,84	3,67	33,21	EST 1	29.06.2016		Carbon	

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
8	0,12	0,65	1,20	2,16	3,01	3,79	13,20	104%	27,21	Y		EST 2	26.04.2017	North	Unknown	Light 2017
7	0,11	0,60	1,10	2,05	2,95	3,73	12,90	102%	25,68	Y		EST 1	29.06.2016	North	Carbon	3Di_medium_2015
5	0,12	0,56	1,03	1,94	2,88	3,79	13,06	104%	25,39	Y		EST 1	06.06.2012	North	Unknown	Heavy 2012
2	0,11	0,59	1,09	2,02	2,90	3,71	12,90	102%	25,37	Y		EST 1	08.07.2015	North	Unknown	3Di_medium_2012

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1,5	13,35	13,35	13,35	7,02	6,80	77,61	Hemamali	07.04.2017	North	Unknown	
S1	13,10	13,10	13,10	6,63	6,28	71,61	Hemamali	09.03.2015	North	Unknown	
S2	12,94	12,94	12,94	6,58	6,15	70,03	EST 2	26.04.2017	North	Unknown	
S3	13,00	13,00	13,00	6,43	6,33	69,44	EST 2	02.07.2010	North	Unknown	Blue

**ASYMMETRIC SPINNAKERS (0)**

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