

<b>BOAT</b> Name <b>ERYTOS II</b> Sail Nr <b>GRE-1050</b>	<b>GPH</b> <b>534.0</b>	<b>HULL</b> Length Overall <b>13.305m</b> Maximum Beam <b>3.978m</b> Displacement <b>6,858kg</b> Draft <b>2.969m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Light</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>JV 44</b> Designer <b>JUDEL/VROELIJK</b> Builder <b>PRO-YACHTING</b> Series <b>11/1998</b> Age <b>11/1998</b> Age Allowance <b>0.487%</b> Offset File <b>PROYA.OFF - 31/07/1998 15:19:00</b> Measurement by <b>KALATZIS - 27/07/2018</b>		IMSL <b>11.750m</b> VCGD <b>-0.574m</b> Sink <b>23.77kg/mm</b> RL <b>11.627m</b> VCGM <b>-0.284m</b> WS <b>32.01m<sup>2</sup></b> LSM0 <b>11.380m</b> Displacement/Length ratio <b>4.6534</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>519.9</b>			<b>580.9</b>		
Time on Time	<b>1.1542</b>			<b>1.1620</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>602.9</b>	<b>476.2</b>	<b>424.1</b>	<b>775.9</b>	<b>584.4</b>	<b>511.1</b>
Time on Time	<b>1.1195</b>	<b>1.4176</b>	<b>1.5915</b>	<b>0.8700</b>	<b>1.1550</b>	<b>1.3206</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>861.6</b>	<b>709.9</b>	<b>643.0</b>	<b>619.3</b>	<b>607.6</b>	<b>595.0</b>	<b>585.8</b>
52°	<b>570.7</b>	<b>481.3</b>	<b>453.2</b>	<b>443.7</b>	<b>438.7</b>	<b>435.2</b>	<b>426.3</b>
60°	<b>541.8</b>	<b>465.9</b>	<b>442.1</b>	<b>431.6</b>	<b>425.5</b>	<b>421.8</b>	<b>410.5</b>
75°	<b>520.7</b>	<b>456.0</b>	<b>431.7</b>	<b>415.0</b>	<b>404.1</b>	<b>397.4</b>	<b>390.1</b>
90°	<b>528.5</b>	<b>458.0</b>	<b>431.5</b>	<b>410.3</b>	<b>391.8</b>	<b>377.9</b>	<b>363.5</b>
110°	<b>542.5</b>	<b>455.6</b>	<b>423.1</b>	<b>397.5</b>	<b>382.5</b>	<b>368.6</b>	<b>346.1</b>
120°	<b>559.8</b>	<b>462.7</b>	<b>426.5</b>	<b>397.5</b>	<b>373.2</b>	<b>353.6</b>	<b>327.9</b>
135°	<b>620.7</b>	<b>500.4</b>	<b>446.4</b>	<b>416.9</b>	<b>387.5</b>	<b>359.5</b>	<b>305.5</b>
150°	<b>736.9</b>	<b>589.7</b>	<b>498.6</b>	<b>449.0</b>	<b>421.1</b>	<b>394.0</b>	<b>341.9</b>
Run VMG	<b>850.9</b>	<b>680.9</b>	<b>575.7</b>	<b>511.9</b>	<b>471.0</b>	<b>438.3</b>	<b>387.8</b>

**Certificate**

Number **000120**  
ORC Ref **GRE01010323**  
Issued On **15/08/2018**  
VPP Ver. **2018 1.00**  
Valid until **28/02/2019**

**Crew Weight**

Default 828kg  
Maximum **815kg**  
Minimum\* **611kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>565.8</b>	<b>1.0604</b>
Non Spin OSN	<b>551.7</b>	<b>1.0876</b>

Selected Courses							
Windward / Leeward	<b>856.2</b>	<b>695.4</b>	<b>609.3</b>	<b>565.6</b>	<b>539.3</b>	<b>516.6</b>	<b>486.8</b>
Circular Random	<b>728.4</b>	<b>591.2</b>	<b>518.7</b>	<b>476.9</b>	<b>450.5</b>	<b>432.0</b>	<b>405.8</b>
Coastal / Long Distance	<b>855.7</b>	<b>655.1</b>	<b>552.4</b>	<b>495.3</b>	<b>462.7</b>	<b>433.7</b>	<b>388.8</b>
Non Spinnaker	<b>785.1</b>	<b>631.5</b>	<b>548.8</b>	<b>500.1</b>	<b>469.3</b>	<b>448.3</b>	<b>419.8</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</b>	<b>5</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>41.9°</b>	<b>40.6°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>37.0°</b>	<b>36.4°</b>	<b>36.1°</b>
Beat VMG	<b>4.18</b>	<b>5.07</b>	<b>5.60</b>	<b>5.81</b>	<b>5.92</b>	<b>6.05</b>	<b>6.15</b>
52°	<b>6.31</b>	<b>7.48</b>	<b>7.94</b>	<b>8.11</b>	<b>8.21</b>	<b>8.27</b>	<b>8.45</b>
60°	<b>6.64</b>	<b>7.73</b>	<b>8.14</b>	<b>8.34</b>	<b>8.46</b>	<b>8.54</b>	<b>8.77</b>
75°	<b>6.91</b>	<b>7.89</b>	<b>8.34</b>	<b>8.67</b>	<b>8.91</b>	<b>9.06</b>	<b>9.23</b>
90°	<b>6.81</b>	<b>7.86</b>	<b>8.34</b>	<b>8.77</b>	<b>9.19</b>	<b>9.53</b>	<b>9.90</b>
110°	<b>6.64</b>	<b>7.90</b>	<b>8.51</b>	<b>9.06</b>	<b>9.41</b>	<b>9.77</b>	<b>10.40</b>
120°	<b>6.43</b>	<b>7.78</b>	<b>8.44</b>	<b>9.06</b>	<b>9.65</b>	<b>10.18</b>	<b>10.98</b>
135°	<b>5.80</b>	<b>7.19</b>	<b>8.06</b>	<b>8.64</b>	<b>9.29</b>	<b>10.02</b>	<b>11.79</b>
150°	<b>4.89</b>	<b>6.10</b>	<b>7.22</b>	<b>8.02</b>	<b>8.55</b>	<b>9.14</b>	<b>10.53</b>
Run VMG	<b>4.23</b>	<b>5.29</b>	<b>6.25</b>	<b>7.03</b>	<b>7.64</b>	<b>8.21</b>	<b>9.28</b>
Gybe Angles	<b>142.7°</b>	<b>142.9°</b>	<b>149.0°</b>	<b>155.6°</b>	<b>167.3°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **11.690**

**Storm Sails Areas**


Heavy Weather Jib **38.53**  
Storm Jib (JL=10.98) **14.27**  
Storm Trysail **20.19**

**Owner**

<b>BOAT</b>	
Name <b>ERYTOS II</b>	Sail Nr <b>GRE-1050</b>
File <b>GR1050</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>27/07/2018</b>		SG <b>1.0245</b>	
FFM <b>1.388</b>	FF <b>1.387</b>	SFFP <b>0.210</b>	
FAM <b>1.126</b>	FA <b>1.131</b>	SAFP <b>11.884</b>	
W1 <b>102.8</b>	PD1 <b>454.0</b>	WD <b>12.380</b>	
W2 <b>102.8</b>	PD2 <b>450.6</b>	GSA <b>1.0</b>	
W3 <b>102.8</b>	PD3 <b>450.7</b>	RSA <b>1.0</b>	
W4 <b>102.8</b>	PD4 <b>448.0</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>7.154 / 7.411</b>	
Maximum beam station from stem		<b>7.745</b>	
RM Measured		<b>222.3kg·m</b>	
RM Default		<b>210.3kg·m</b>	
Limit of positive stability / Stab.Index		<b>128.8° / 128.9</b>	
Freeboard at mast at 4.910		<b>1.199</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>17.710</b>	E <b>6.513</b>	MDT1 <b>0.134</b>	MW <b>0.243</b>
IG <b>16.859</b>	J <b>4.910</b>	MDL1 <b>0.244</b>	GO <b>0.253</b>
ISP <b>18.331</b>	SFJ <b>0.000</b>	MDT2 <b>0.109</b>	BD <b>0.297</b>
BAS <b>1.931</b>	SPL <b>5.270</b>	MDL2 <b>0.161</b>	MWT <b>231.00</b>
FSP <b>0.082</b>	TPS	TL <b>2.222</b>	MCG <b>5.460</b>




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**IMS Measurement Certificate**

**Certificate**

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.410</b>		
Type <b>Folding 2 blades</b>	PBW		
Twin Screw <b>No</b>	PIPA <b>0.0037</b>		
ST1 <b>0.042</b>	ST3	ST5 <b>0.292</b>	
ST2	ST4 <b>0.112</b>	EDL <b>0.990</b>	

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
<b>N/A</b>	

<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>	
	0.215	1.36	2.41	4.17	5.45	68.26	69.74	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>				
	18.15	18.15	18.15	9.99	9.50	149.62		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	16.99	15.99	16.49	8.64	8.70	118.89		AS · (SFL + 4·SHW) / 6	

<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>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.12	0.77	1.45	2.68	3.88	5.09	16.82	44.42	Y		19/08/2017	Dyneem	Medium 3DI
0.11	0.69	1.36	2.56	3.68	4.99	16.73	42.30	Y		25/08/2009	Unknow	MEDIUM
0.11	0.71	1.37	2.54	3.69	4.99	16.70	42.25	Y		25/08/2009	Unknow	JIB TOP
0.11	0.80	1.42	2.55	3.74	4.98	16.49	42.22	Y		04/09/2009	Unknow	LIGHT
0.09	0.69	1.36	2.56	3.68	4.99	16.69	42.18	Y		17/03/2016	Carbon	
0.06	0.66	1.28	2.49	3.76	5.08	16.60	41.92	Y		19/08/2007	Unknow	HEAVY
0.07	0.63	1.21	2.41	3.73	4.99	16.70	41.27	Y		18/06/2008	Unknow	No 3

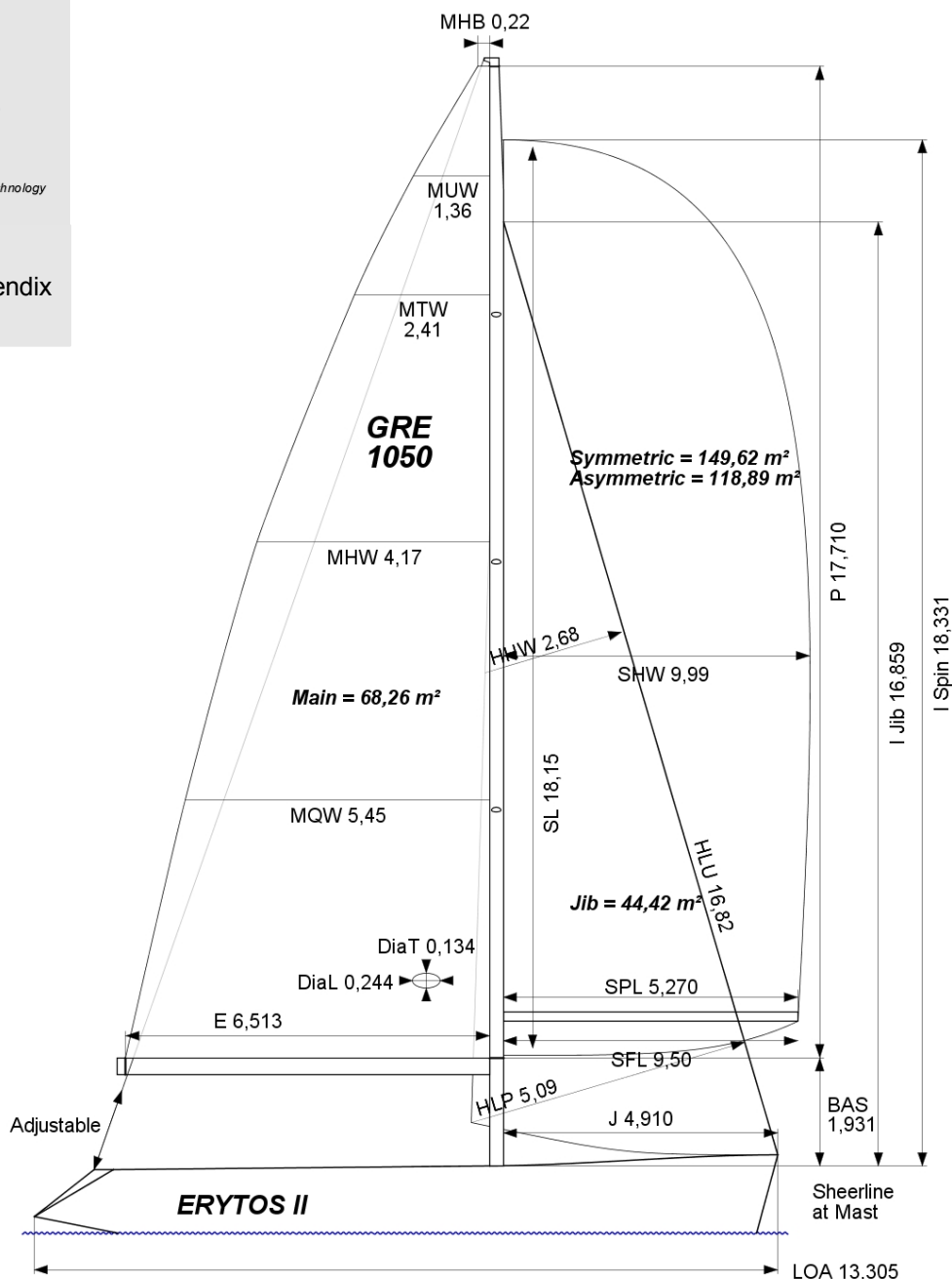
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>KALATZIS GRE-21</b>				
Date <b>27/07/2018</b>				
Comment <b>NO MATTRESSES ON BOARD DURING</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
5	Engine	YANMAR	3JH3E	
<b>Id</b>	<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 Description</b>
6a	Tank	FUEL	ST STEEL	117.0	8.90		50.0
6b	Tank	WATER	BLADDER	150.0	9.00		0.0
6c	Tank	WATER	BLADDER	150.0	9.00		0.0
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
1a	Ballast	613.0	7.10	2*(9x25 + 11,5) + 140			
1b	Ballast	400.0	7.60	16 x 25			
1c	Ballast	285.0	8.10	6x40 +3 x 15			
3a	Battery	88.0	7.70	4x65 Ah			



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (3)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0.215	1.36	2.41	4.17	5.45	68.26	KALATZIS	17/03/2016	NORTH	Carbon						
2	0.225	1.34	2.37	4.13	5.38	67.61	KALATZIS	17/03/2016	NORTH	Kevlar	3DL					
HEADSAILS (7)																
Id	HHB	HWU	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
7	0.12	0.77	1.45	2.68	3.88	5.09	16.82	104%	44.42	Y		KALATZIS	19/08/2017	North	Dyneem	Medium 3DL
3	0.11	0.69	1.36	2.56	3.68	4.99	16.73	102%	42.30	Y		KALATZIS	25/08/2009	NORTH	Unknow	MEDIUM
5	0.11	0.71	1.37	2.54	3.69	4.99	16.70	102%	42.25	Y		KALATZIS	25/08/2009	NORTH	Unknow	JIB TOP
2	0.11	0.80	1.42	2.55	3.74	4.98	16.49	101%	42.22	Y		KALATZIS	04/09/2009	UK	Unknow	LIGHT
6	0.09	0.69	1.36	2.56	3.68	4.99	16.69	102%	42.18	Y		KALATZIS	17/03/2016	NORTH	Carbon	
1	0.06	0.66	1.28	2.49	3.76	5.08	16.60	103%	41.92	Y		GRE-34	19/08/2007	UK	Unknow	HEAVY
4	0.07	0.63	1.21	2.41	3.73	4.99	16.70	102%	41.27	Y		SYRIGOU	18/06/2008	NORTH	Unknow	No 3
SYMMETRIC SPINNAKERS (7)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
6	18.15	18.15	18.15	9.99	9.50	149.62	Hemamali	11/05/2018	NORTH	Nylon	0.6					
7	18.12	18.12	18.12	9.68	9.46	145.50	KALATZIS	27/07/2018	NORTH	Nylon	0.5					
1	16.75	16.75	16.75	9.15	8.69	126.43		04/09/2009		Nylon	0.75					
2	16.65	16.65	16.65	9.19	8.68	126.10		04/09/2009		Nylon	0.60					
5	16.57	16.57	16.57	9.11	8.53	124.19		17/03/2016		Nylon	0.90					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	16.99	15.99	16.49	8.64	8.70	118.89	asym		04/09/2009		Nylon	0.50				
1	17.17	15.72	16.45	7.60	8.76	107.33	asym		04/09/2009		Nylon	0.90				