



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **Est554**  
Issued On **6/24/2018**  
ORC Ref **EST00000245**  
VPP Ver. **2018 1.00**  
Valid until **12/31/2018**

### Crew Weight

Default 412kg  
Maximum **460kg**  
Minimum\* **345kg**  
*\*when applied by the NoR and SI  
Non Manual Pwr*

### Special Scoring

	ToD	ToT
Double H.GPH	<b>751.2</b>	<b>0.7987</b>
Double H.OSN	<b>728.4</b>	<b>0.8237</b>
Non Spin GPH	<b>772.3</b>	<b>0.7769</b>
Non Spin OSN	<b>744.3</b>	<b>0.8061</b>

### Sails Limitations

Headsails **5** Spinnakers **3**

### Spinnaker configuration

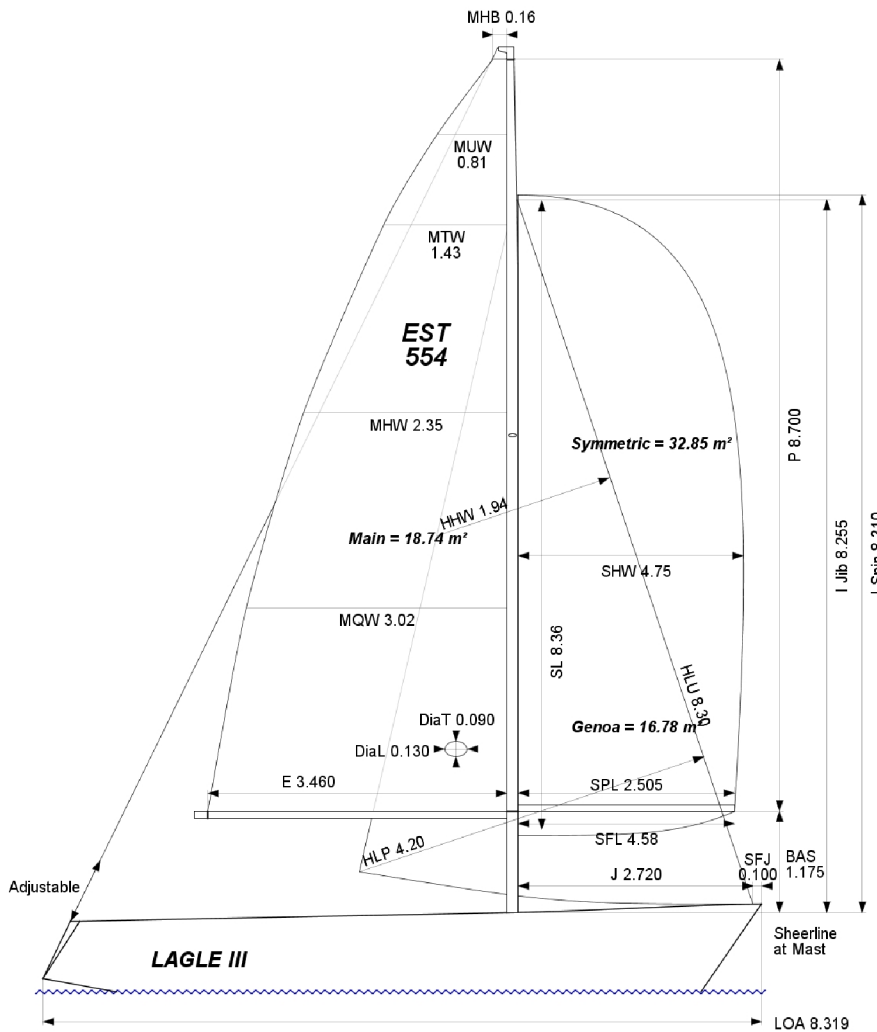
Symmetric: **Yes** **32.85**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 6.528**

### Stability (Estimated)

Limit Positive Stab.: **115.2°**  
Stability Index: **110.7**



BOAT		GPH	HULL			
Name	<b>LAGLE III</b>	<b>749.5</b>	Data File	<b>Est0554</b>	LOA	<b>8.319m</b>
Sail Nr	<b>EST 554</b>		Offset File	<b>L5280.BOF</b>	MB	<b>2.794m</b>
CLASS			Displacement	<b>2,269kg</b>	Draft	<b>1.412m</b>
Class	<b>Finn Express 83</b>		IMS Division	<b>Cruiser/Racer</b>	Dynamic All.	<b>0.357%</b>
Designer	<b>Eivind Still</b>		Fwd Accom.	<b>Yes</b>	Construction	<b>Solid</b>
Builder	<b>Nycra</b>		Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>
Series	<b>01/1981</b>		Crew Arm Ex		Carbon Rudder	<b>No</b>
Age Date	<b>01/1981</b>				Light Stanchions	<b>No</b>
Age Allowance	<b>0.487%</b>		IMSL	<b>7.106m</b>	VCGD	<b>-0.085m</b>
COMMENTS			RL	<b>5.949m</b>	VCGM	<b>0.022m</b>
			WS	<b>14.12m²</b>	LSM0	<b>6.974m</b>
			Displacement/Length ratio	<b>6.6894</b>	Water Ballast	<b>0</b>
			Trim Tab	<b>No</b>	BLR Index	<b>0.0000</b>
PROPELLER			CENTERBOARD			
Installation	<b>Shaft exposed</b>	PRD	<b>0.370</b>	N/A		
Type	<b>Folding 2 blades</b>	PBW	<b>0.096</b>			
		PIPA	<b>0.0013</b>			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>724.6</b>			<b>806.1</b>		
Time on Time	<b>0.8281</b>			<b>0.8373</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>877.2</b>	<b>659.3</b>	<b>577.7</b>	<b>1133.7</b>	<b>813.7</b>	<b>690.9</b>
Time on Time	<b>0.7695</b>	<b>1.0238</b>	<b>1.1684</b>	<b>0.5954</b>	<b>0.8295</b>	<b>0.9770</b>

<b>BOAT</b>	
Name <b>LAGLE III</b>	Sail Nr <b>EST 554</b>
File <b>Est0554</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>21/06/2018</b>		SG	
FFM	FF	1.011	SFFP 0.506
FAM	FA	0.820	SAFP 7.893
LCF from stem on CL / on sheer		4.484 / 4.675	
Maximum beam station from stem		4.666	
RM Measured		36.5kg·m	
RM Default		35.5kg·m	
Limit of positive stability / Stab.Index		115.2° / 110.7	
Freeboard at mast at 2.820		0.921	



**2018**  
Measurements  
Datasheet

<b>RIG</b>					
Forestay Tension	<b>Aft</b>	Spreaders	<b>1</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	8.700	E	3.460	MDT1	0.090 MW
IG	8.255	J	2.720	MDL1	0.130 GO
ISP	8.310	SFJ	0.100	MDT2	0.082 BD 0.085
BAS	1.175	SPL	2.505	MDL2	0.087 MWT
FSP	0.000	TPS		TL	2.400 MCG

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

<b>PROPELLER</b>			
Installation	<b>Shaft exposed</b>	PRD	0.370
Type	<b>Folding 2 blades</b>	PBW	0.096
Twin Screw	<b>No</b>	PIPA	0.0013
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.160	0.81	1.43	2.35	3.02	18.74	EST5	21/06/2018		Kevlar						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
U	0.06	0.48	0.94	1.94	3.05	4.20	8.30	154%	16.78			EST5	20/06/2018		Dacron	
<b>SYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
V II	8.36	8.36	8.36	4.75	4.58	32.85	EST5	20/06/2018		Unknown						
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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# 2018

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>LAGLE III</b>	Certificate Number	<b>Est554</b>
Sail Nr	<b>EST 554</b>	Issued On	<b>6/24/2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1303.5</b>	<b>1079.6</b>	<b>952.2</b>	<b>865.8</b>	<b>823.1</b>	<b>809.2</b>	<b>811.4</b>
52°	<b>849.7</b>	<b>712.1</b>	<b>633.0</b>	<b>596.0</b>	<b>578.8</b>	<b>571.3</b>	<b>568.3</b>
60°	<b>802.6</b>	<b>674.4</b>	<b>609.6</b>	<b>580.9</b>	<b>564.3</b>	<b>554.0</b>	<b>548.2</b>
75°	<b>767.1</b>	<b>646.4</b>	<b>593.8</b>	<b>568.6</b>	<b>548.9</b>	<b>532.7</b>	<b>514.1</b>
90°	<b>773.2</b>	<b>639.4</b>	<b>580.1</b>	<b>551.2</b>	<b>529.8</b>	<b>515.1</b>	<b>490.7</b>
110°	<b>772.5</b>	<b>635.2</b>	<b>578.1</b>	<b>548.3</b>	<b>520.2</b>	<b>493.8</b>	<b>455.7</b>
120°	<b>799.5</b>	<b>653.7</b>	<b>586.3</b>	<b>555.6</b>	<b>528.5</b>	<b>501.3</b>	<b>453.0</b>
135°	<b>898.7</b>	<b>723.0</b>	<b>618.4</b>	<b>574.6</b>	<b>547.3</b>	<b>520.8</b>	<b>471.2</b>
150°	<b>1044.6</b>	<b>820.6</b>	<b>690.0</b>	<b>608.5</b>	<b>571.7</b>	<b>546.2</b>	<b>497.1</b>
Run VMG	<b>1206.2</b>	<b>945.0</b>	<b>792.9</b>	<b>686.5</b>	<b>615.7</b>	<b>577.1</b>	<b>527.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1254.9</b>	<b>1012.3</b>	<b>872.5</b>	<b>776.1</b>	<b>719.4</b>	<b>693.1</b>	<b>669.6</b>
Circular Random	<b>1048.2</b>	<b>839.9</b>	<b>726.2</b>	<b>659.0</b>	<b>617.4</b>	<b>590.6</b>	<b>558.5</b>
Coastal / Long Distance	<b>1250.0</b>	<b>949.2</b>	<b>783.4</b>	<b>679.6</b>	<b>625.9</b>	<b>589.8</b>	<b>532.0</b>
Non Spinnaker	<b>1087.7</b>	<b>868.3</b>	<b>747.9</b>	<b>676.3</b>	<b>631.6</b>	<b>603.0</b>	<b>569.8</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>43.5°</b>	<b>42.3°</b>	<b>42.4°</b>	<b>41.2°</b>	<b>39.9°</b>	<b>39.5°</b>	<b>40.1°</b>
Beat VMG	<b>2.76</b>	<b>3.33</b>	<b>3.78</b>	<b>4.16</b>	<b>4.37</b>	<b>4.45</b>	<b>4.44</b>
52°	<b>4.24</b>	<b>5.06</b>	<b>5.69</b>	<b>6.04</b>	<b>6.22</b>	<b>6.30</b>	<b>6.34</b>
60°	<b>4.49</b>	<b>5.34</b>	<b>5.91</b>	<b>6.20</b>	<b>6.38</b>	<b>6.50</b>	<b>6.57</b>
75°	<b>4.69</b>	<b>5.57</b>	<b>6.06</b>	<b>6.33</b>	<b>6.56</b>	<b>6.76</b>	<b>7.00</b>
90°	<b>4.66</b>	<b>5.63</b>	<b>6.21</b>	<b>6.53</b>	<b>6.80</b>	<b>6.99</b>	<b>7.34</b>
110°	<b>4.66</b>	<b>5.67</b>	<b>6.23</b>	<b>6.57</b>	<b>6.92</b>	<b>7.29</b>	<b>7.90</b>
120°	<b>4.50</b>	<b>5.51</b>	<b>6.14</b>	<b>6.48</b>	<b>6.81</b>	<b>7.18</b>	<b>7.95</b>
135°	<b>4.01</b>	<b>4.98</b>	<b>5.82</b>	<b>6.26</b>	<b>6.58</b>	<b>6.91</b>	<b>7.64</b>
150°	<b>3.45</b>	<b>4.39</b>	<b>5.22</b>	<b>5.92</b>	<b>6.30</b>	<b>6.59</b>	<b>7.24</b>
Run VMG	<b>2.98</b>	<b>3.81</b>	<b>4.54</b>	<b>5.24</b>	<b>5.85</b>	<b>6.24</b>	<b>6.82</b>
Gybe Angles	<b>149.0°</b>	<b>153.1°</b>	<b>154.9°</b>	<b>166.1°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>