



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **EST415**  
Issued On **4/24/2018**  
ORC Ref **EST00000037**  
VPP Ver. **2018 1.00**  
Valid until **12/31/2018**

### Crew Weight

Default 717kg  
Maximum **595kg**  
Minimum\* **446kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Double H.GPH	<b>638.6</b>	<b>0.9396</b>
Double H.OSN	<b>621.6</b>	<b>0.9652</b>
Non Spin GPH	<b>668.7</b>	<b>0.8973</b>
Non Spin OSN	<b>647.3</b>	<b>0.9269</b>

### Sails Limitations

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

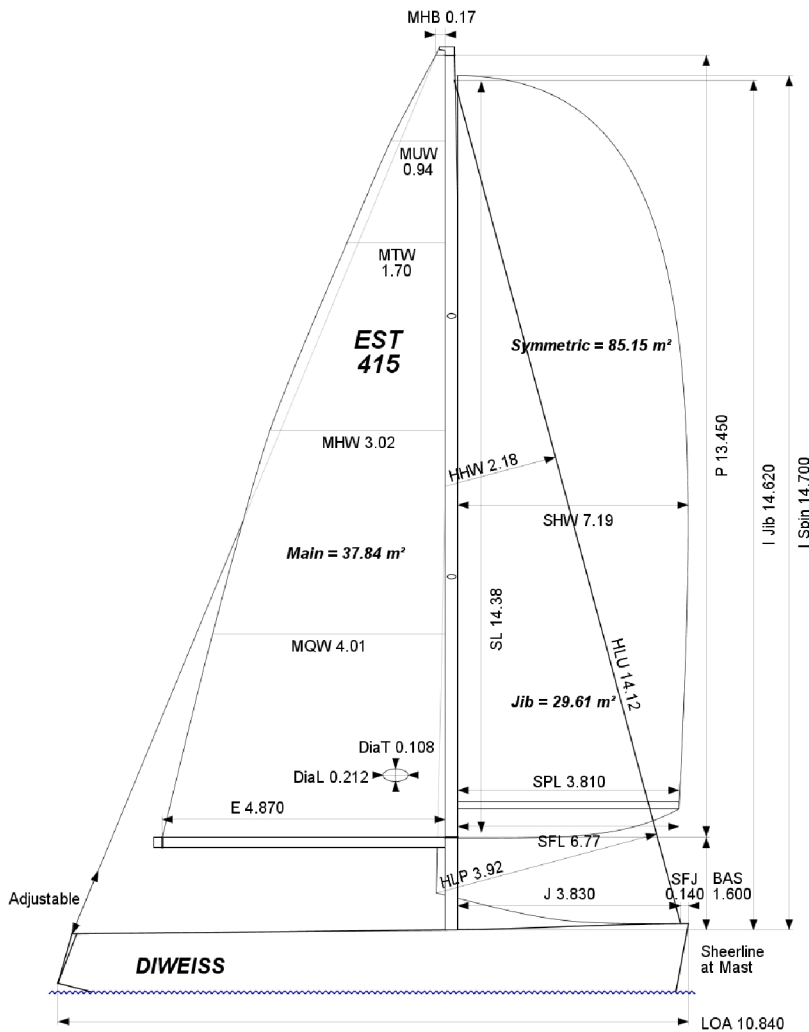
**Spinnaker configuration**  
Symmetric: **Yes** 85.15  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 9.197**

### Stability (Measured)

Limit Positive Stab.: **110.9°**  
Stability Index: **116.3**



BOAT		GPH		HULL		
Name	<b>DiWeiss</b>		<b>634.9</b>	Data File	<b>Est0415</b> LOA <b>10.840m</b>	
Sail Nr	<b>EST415</b>			Offset File	<b>ba35mk2d.off</b> MB <b>3.276m</b>	
				Displacement	<b>6,194kg</b> Draft <b>2.024m</b>	
CLASS				IMS Division	<b>Cruiser/Racer</b> Dynamic All. <b>0.267%</b>	
Class	<b>BAVARIA 35 Match</b>			Fwd Accom.	<b>Yes</b> Construction <b>Cored</b>	
Designer	<b>J&amp;J DESIGN</b>			Fiber Rigging	<b>No</b> Aramid Core <b>No</b>	
Builder	<b>BAVARIA YACHTBAU</b>			Crew Arm Ex	Carbon Rudder <b>No</b>	
Series	<b>01/2004</b>			Light Stanchions		
Age Date	<b>04/2006</b>			IMSL	<b>10.177m</b> VCGD <b>-0.091m</b> Sink <b>19.43kg/mm</b>	
Age Allowance	<b>0.455%</b>			RL	<b>8.214m</b> VCGM <b>0.104m</b> WS <b>25.94m²</b>	
COMMENTS				LSM0	<b>10.287m</b> Displacement/Length ratio <b>5.6899</b>	
				Water Ballast	<b>0</b> Trim Tab <b>No</b>	
				BLR Index	<b>0.0000</b>	
PROPELLER				CENTERBOARD		
Installation	<b>Strut</b>	PRD	<b>0.430</b>			
Type	<b>Folding 3 or 4 blades</b>	PBW	<b>0.105</b>			
		PIPA	<b>0.0038</b>	<b>N/A</b>		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>616.0</b>			<b>687.8</b>		
Time on Time	<b>0.9740</b>			<b>0.9814</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>730.4</b>	<b>560.9</b>	<b>502.3</b>	<b>940.0</b>	<b>691.9</b>	<b>599.5</b>
Time on Time	<b>0.9241</b>	<b>1.2034</b>	<b>1.3437</b>	<b>0.7181</b>	<b>0.9756</b>	<b>1.1259</b>

<b>BOAT</b>	
Name <b>DiWeiss</b>	Sail Nr <b>EST415</b>
File <b>Est0415</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>04/05/2006</b>		SG <b>1.0020</b>	
FFM <b>1.180</b>	FF <b>1.197</b>	SFFP <b>0.120</b>	
FAM <b>1.005</b>	FA <b>1.016</b>	SAFP <b>10.517</b>	
W1 <b>60.1</b>	PD1 <b>210.0</b>	WD <b>10.700</b>	
W2 <b>60.1</b>	PD2 <b>203.0</b>	GSA <b>12.6</b>	
W3 <b>60.1</b>	PD3 <b>202.0</b>	RSA <b>4298.7</b>	
W4 <b>60.1</b>	PD4 <b>203.0</b>	PLM <b>2005.0</b>	
LCF from stem on CL / on sheer		<b>6.010 / 6.200</b>	
Maximum beam station from stem		<b>6.670</b>	
RM Measured		<b>110.0kg·m</b>	
RM Default		<b>123.4kg·m</b>	
Limit of positive stability / Stab.Index		<b>110.9° / 116.3</b>	
Freeboard at mast at 3.970		<b>1.065</b>	



**2018**  
Measurements  
Datasheet

<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>13.450</b>	E <b>4.870</b>	MDT1 <b>0.108</b>	MW <b>0.180</b>
IG <b>14.620</b>	J <b>3.830</b>	MDL1 <b>0.212</b>	GO <b>0.195</b>
ISP <b>14.700</b>	SFJ <b>0.140</b>	MDT2 <b>0.108</b>	BD
BAS <b>1.600</b>	SPL <b>3.810</b>	MDL2 <b>0.150</b>	MWT <b>155.00</b>
FSP <b>0.066</b>	TPS	TL <b>2.400</b>	MCG <b>5.430</b>

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.430</b>		
Type <b>Folding 3 or 4 blades</b>	PBW <b>0.105</b>		
Twin Screw <b>No</b>	PIPA <b>0.0038</b>		
ST1 <b>0.065</b>	ST3	ST5 <b>0.315</b>	
ST2	ST4 <b>0.102</b>	EDL <b>2.175</b>	

<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					
5	0.170	0.94	1.70	3.02	4.01	37.84	SLO 03	06/02/2017	OneSails	Twaron	P13,45;E4,87					
<b>HEADSAILS (3)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6	0.07	0.63	1.17	2.18	3.10	3.92	14.12	102%	29.62			EST 1	14/04/2016	WB	Kevlar	
9	0.11	0.65	1.20	2.16	3.05	4.00	14.03	104%	29.52			SLO 02	06/02/2017	OneSails	Twaron	
8	0.08	0.50	0.90	1.81	2.77	3.77	14.00	98%	25.98			EST 1	14/04/2016	WB	Kevlar	
<b>SYMMETRIC SPINNAKERS (3)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
7	14.38	14.38	14.38	7.19	6.77	85.15	SLO 03	06/02/2017	OneSails	Unknown						
4	13.20	13.20	13.20	6.80	6.80	74.80	EST 1	14/04/2016	WB	Unknown						
5	13.70	13.70	13.70	6.15	6.00	69.87	EST 1	14/04/2016	NorthSails	Unknown						
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>DiWeiss</b>	Certificate Number	<b>EST415</b>
Sail Nr	<b>EST415</b>	Issued On	<b>4/24/2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1074.3</b>	<b>889.7</b>	<b>787.9</b>	<b>736.7</b>	<b>718.7</b>	<b>712.0</b>	<b>696.3</b>
52°	<b>708.1</b>	<b>595.7</b>	<b>533.7</b>	<b>509.1</b>	<b>500.2</b>	<b>496.5</b>	<b>491.3</b>
60°	<b>672.7</b>	<b>567.8</b>	<b>516.0</b>	<b>495.5</b>	<b>486.0</b>	<b>482.1</b>	<b>479.0</b>
75°	<b>646.6</b>	<b>547.5</b>	<b>503.8</b>	<b>484.2</b>	<b>471.9</b>	<b>463.4</b>	<b>456.5</b>
90°	<b>654.2</b>	<b>542.3</b>	<b>497.0</b>	<b>482.3</b>	<b>467.1</b>	<b>453.9</b>	<b>433.3</b>
110°	<b>647.8</b>	<b>534.1</b>	<b>489.0</b>	<b>466.7</b>	<b>449.4</b>	<b>438.8</b>	<b>420.8</b>
120°	<b>666.6</b>	<b>547.7</b>	<b>494.8</b>	<b>469.7</b>	<b>448.7</b>	<b>428.2</b>	<b>403.6</b>
135°	<b>735.5</b>	<b>598.7</b>	<b>520.2</b>	<b>485.7</b>	<b>463.9</b>	<b>442.4</b>	<b>399.4</b>
150°	<b>867.0</b>	<b>688.2</b>	<b>583.5</b>	<b>518.0</b>	<b>486.4</b>	<b>465.9</b>	<b>425.3</b>
Run VMG	<b>1001.1</b>	<b>794.6</b>	<b>673.2</b>	<b>591.5</b>	<b>535.6</b>	<b>497.3</b>	<b>455.8</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1037.7</b>	<b>842.1</b>	<b>730.5</b>	<b>664.1</b>	<b>627.1</b>	<b>604.6</b>	<b>576.0</b>
Circular Random	<b>876.3</b>	<b>706.4</b>	<b>615.6</b>	<b>563.4</b>	<b>531.9</b>	<b>511.6</b>	<b>485.7</b>
Coastal / Long Distance	<b>1034.1</b>	<b>791.0</b>	<b>657.6</b>	<b>580.5</b>	<b>541.5</b>	<b>512.1</b>	<b>465.0</b>
Non Spinnaker	<b>938.1</b>	<b>749.9</b>	<b>647.5</b>	<b>587.5</b>	<b>550.7</b>	<b>526.9</b>	<b>496.8</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>42.6°</b>	<b>41.1°</b>	<b>40.6°</b>	<b>40.2°</b>	<b>39.6°</b>	<b>39.5°</b>	<b>39.1°</b>
Beat VMG	<b>3.35</b>	<b>4.05</b>	<b>4.57</b>	<b>4.89</b>	<b>5.01</b>	<b>5.06</b>	<b>5.17</b>
52°	<b>5.08</b>	<b>6.04</b>	<b>6.75</b>	<b>7.07</b>	<b>7.20</b>	<b>7.25</b>	<b>7.33</b>
60°	<b>5.35</b>	<b>6.34</b>	<b>6.98</b>	<b>7.27</b>	<b>7.41</b>	<b>7.47</b>	<b>7.52</b>
75°	<b>5.57</b>	<b>6.57</b>	<b>7.15</b>	<b>7.43</b>	<b>7.63</b>	<b>7.77</b>	<b>7.89</b>
90°	<b>5.50</b>	<b>6.64</b>	<b>7.24</b>	<b>7.46</b>	<b>7.71</b>	<b>7.93</b>	<b>8.31</b>
110°	<b>5.56</b>	<b>6.74</b>	<b>7.36</b>	<b>7.71</b>	<b>8.01</b>	<b>8.20</b>	<b>8.56</b>
120°	<b>5.40</b>	<b>6.57</b>	<b>7.28</b>	<b>7.66</b>	<b>8.02</b>	<b>8.41</b>	<b>8.92</b>
135°	<b>4.89</b>	<b>6.01</b>	<b>6.92</b>	<b>7.41</b>	<b>7.76</b>	<b>8.14</b>	<b>9.01</b>
150°	<b>4.15</b>	<b>5.23</b>	<b>6.17</b>	<b>6.95</b>	<b>7.40</b>	<b>7.73</b>	<b>8.47</b>
Run VMG	<b>3.60</b>	<b>4.53</b>	<b>5.35</b>	<b>6.09</b>	<b>6.72</b>	<b>7.24</b>	<b>7.90</b>
Gybe Angles	<b>145.1°</b>	<b>149.8°</b>	<b>151.4°</b>	<b>156.1°</b>	<b>173.1°</b>	<b>180.0°</b>	<b>180.0°</b>