



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

Hungarian Yachting Association  
Istvanmezei ut 1-3  
H-1146 Budapest  
HUNGARY



### Certificate

Number  
Issued On **29.6.2016.**  
ORC Ref **HUN00063640**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016.**

### Crew Weight

Declared **480kg**  
Default\* **617kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **638.6 0.9396**  
Non Spin OSN **622.5 0.9638**  
N/S Perf. Line **26.2 0.635**

### Sails Limitations

Headsails **6** Spinnakers **3**

### Spinnaker configuration

Symmetric: **Yes 105.12**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **9.060**

### Stability

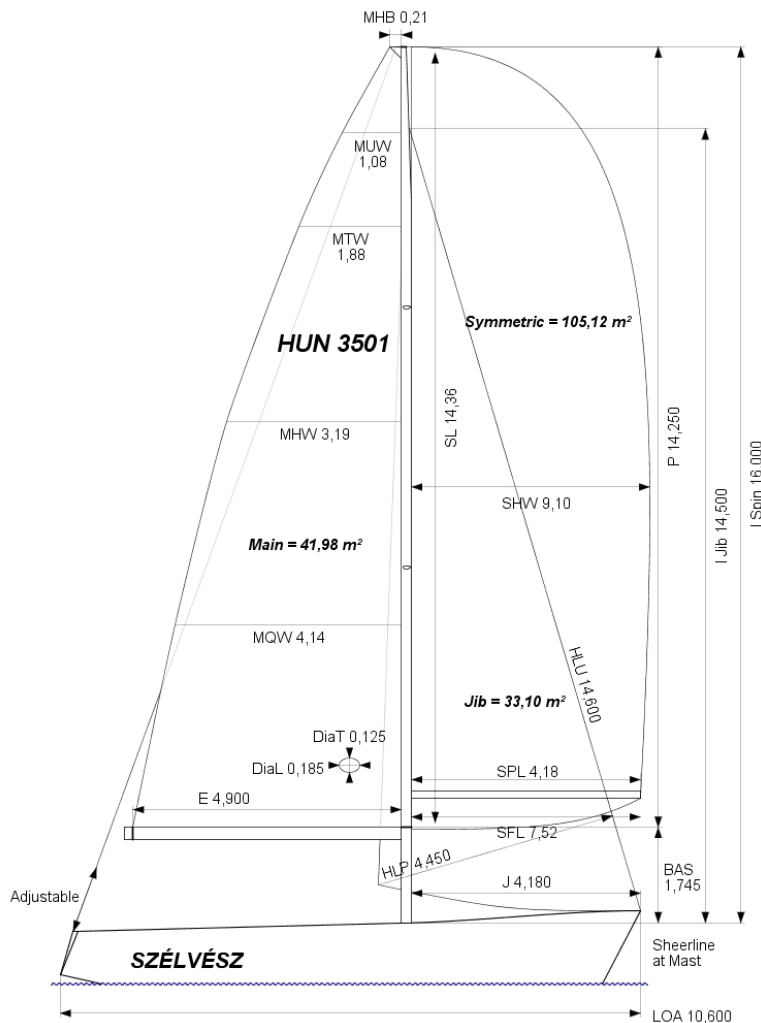
LPS (Estimated): **124.2°**  
Stability Index: **125.2**  
OSR Category: **N/A**

### Owner

István Soós  
Csallókoz u. 9  
1222 Budapest  
HUNGARY

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

Signature



| BOAT             |                                     | GPH           |               | HULL                          |                      |                           |                |
|------------------|-------------------------------------|---------------|---------------|-------------------------------|----------------------|---------------------------|----------------|
| Name             | <b>Szélvész</b>                     |               | <b>606.3</b>  | Data File                     | <b>HUN3501.dxt</b>   | LOA                       | <b>10.600m</b> |
| Sail Nr          | <b>HUN 3501</b>                     |               |               | Offset File                   | <b>X35SD.OFF</b>     | MB                        | <b>3.250m</b>  |
|                  |                                     |               |               | Displacement                  | <b>4,599kg</b>       | Draft                     | <b>1.867m</b>  |
| CLASS            |                                     |               |               | IMS Division                  | <b>Cruiser/Racer</b> | Dynamic All.              | <b>0.000%</b>  |
| Class            | <b>X-35 SD</b>                      |               |               | Fwd Accom.                    | <b>Yes</b>           | Construction              | <b>Cored</b>   |
| Designer         | <b>Jeppesen</b>                     |               |               | Fiber Rigging                 | <b>No</b>            | Aramid Core               | <b>No</b>      |
| Builder          | <b>X-Yachts</b>                     |               |               | Crew Arm Ex                   |                      | Carbon Rudder             | <b>No</b>      |
| Series           | <b>01.2005</b>                      |               |               |                               |                      | Light Stanchions          | <b>No</b>      |
| Age Date         | <b>02.2008</b>                      |               |               | IMSL                          | <b>9.474m</b>        | VCGD                      | <b>-0.098m</b> |
| Age Allowance    | <b>0.358%</b>                       |               |               | RL                            | <b>8.644m</b>        | VCGM                      | <b>-0.114m</b> |
|                  |                                     |               |               | WS                            | <b>22.99m2</b>       |                           |                |
|                  |                                     |               |               | LSM0                          | <b>9.258m</b>        | Displacement/Length ratio | <b>5.7958</b>  |
| COMMENTS         |                                     |               |               | Water Ballast                 | <b>0</b>             | Trim Tab                  | <b>No</b>      |
| PROPELLER        |                                     |               |               | CENTERBOARD                   |                      |                           |                |
| Installation     | <b>Strut</b>                        | PRD           | <b>0.415</b>  | <b>N/A</b>                    |                      |                           |                |
| Type             | <b>Folding 2 blades</b>             | PBW           | <b>0.120</b>  |                               |                      |                           |                |
|                  |                                     | PIPA          | <b>0.0031</b> |                               |                      |                           |                |
| SCORING OPTIONS  |                                     |               |               |                               |                      |                           |                |
|                  | OFFSHORE<br>COASTAL / LONG DISTANCE |               |               | INSHORE<br>WINDWARD / LEEWARD |                      |                           |                |
| Time On Distance | <b>591.6</b>                        |               |               | <b>660.7</b>                  |                      |                           |                |
| Time On Time     | <b>1.0142</b>                       |               |               | <b>1.0217</b>                 |                      |                           |                |
| Performance Line | PLT                                 | PLD           |               | PLT                           | PLD                  |                           |                |
|                  | <b>0.729</b>                        | <b>62.8</b>   |               | <b>0.973</b>                  | <b>276.3</b>         |                           |                |
| Triple Number    | Low                                 | Medium        | High          | Low                           | Medium               | High                      |                |
|                  | <b>0.9853</b>                       | <b>1.2497</b> | <b>1.3948</b> | <b>0.7620</b>                 | <b>1.0181</b>        | <b>1.1617</b>             |                |



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# 2016

## ORC Club Certificate Appendix

| BOAT               |                   |
|--------------------|-------------------|
| Name               | <b>Szélvész</b>   |
| Sail Nr            | <b>HUN 3501</b>   |
| Certificate Number |                   |
| Issued On          | <b>29.6.2016.</b> |

| TIME ALLOWANCES |               |              |              |              |              |              |              |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity   | 6 kt          | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Beat VMG        | <b>1024.6</b> | <b>851.3</b> | <b>755.5</b> | <b>718.2</b> | <b>699.9</b> | <b>687.4</b> | <b>682.4</b> |
| 52°             | <b>665.7</b>  | <b>559.6</b> | <b>513.8</b> | <b>499.5</b> | <b>493.0</b> | <b>489.4</b> | <b>482.3</b> |
| 60°             | <b>624.5</b>  | <b>533.3</b> | <b>498.8</b> | <b>485.0</b> | <b>478.2</b> | <b>474.3</b> | <b>465.7</b> |
| 75°             | <b>590.4</b>  | <b>516.2</b> | <b>487.1</b> | <b>467.8</b> | <b>454.4</b> | <b>447.4</b> | <b>441.5</b> |
| 90°             | <b>591.9</b>  | <b>514.5</b> | <b>488.0</b> | <b>466.7</b> | <b>446.0</b> | <b>428.6</b> | <b>412.8</b> |
| 110°            | <b>599.6</b>  | <b>509.6</b> | <b>475.4</b> | <b>454.8</b> | <b>440.2</b> | <b>426.3</b> | <b>403.1</b> |
| 120°            | <b>616.1</b>  | <b>518.2</b> | <b>481.2</b> | <b>451.2</b> | <b>425.7</b> | <b>411.1</b> | <b>385.3</b> |
| 135°            | <b>680.5</b>  | <b>555.6</b> | <b>500.8</b> | <b>471.7</b> | <b>443.1</b> | <b>414.8</b> | <b>355.5</b> |
| 150°            | <b>801.6</b>  | <b>642.4</b> | <b>547.8</b> | <b>500.3</b> | <b>473.0</b> | <b>446.5</b> | <b>394.1</b> |
| Run VMG         | <b>925.6</b>  | <b>741.8</b> | <b>630.8</b> | <b>564.0</b> | <b>515.2</b> | <b>484.5</b> | <b>434.5</b> |

| Selected Courses   |               |              |              |              |              |              |              |
|--------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | <b>975.1</b>  | <b>796.6</b> | <b>693.2</b> | <b>641.1</b> | <b>607.5</b> | <b>586.0</b> | <b>558.5</b> |
| Circular Random    | <b>825.7</b>  | <b>670.8</b> | <b>588.9</b> | <b>541.7</b> | <b>512.6</b> | <b>492.9</b> | <b>466.0</b> |
| Ocean for PCS      | <b>1010.6</b> | <b>785.8</b> | <b>660.0</b> | <b>583.3</b> | <b>533.3</b> | <b>497.8</b> | <b>446.8</b> |
| Non Spinnaker      | <b>884.1</b>  | <b>712.0</b> | <b>619.3</b> | <b>565.2</b> | <b>531.6</b> | <b>509.4</b> | <b>480.9</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>43.7°</b>  | <b>42.7°</b>  | <b>41.4°</b>  | <b>39.7°</b>  | <b>39.3°</b>  | <b>38.7°</b>  | <b>39.2°</b>  |
| Beat VMG  | <b>3.51</b>   | <b>4.23</b>   | <b>4.77</b>   | <b>5.01</b>   | <b>5.14</b>   | <b>5.24</b>   | <b>5.28</b>   |
| 52°   | <b>5.41</b>   | <b>6.43</b>   | <b>7.01</b>   | <b>7.21</b>   | <b>7.30</b>   | <b>7.36</b>   | <b>7.46</b>   |
| 60°   | <b>5.76</b>   | <b>6.75</b>   | <b>7.22</b>   | <b>7.42</b>   | <b>7.53</b>   | <b>7.59</b>   | <b>7.73</b>   |
| 75°   | <b>6.10</b>   | <b>6.97</b>   | <b>7.39</b>   | <b>7.70</b>   | <b>7.92</b>   | <b>8.05</b>   | <b>8.15</b>   |
| 90°   | <b>6.08</b>   | <b>7.00</b>   | <b>7.38</b>   | <b>7.71</b>   | <b>8.07</b>   | <b>8.40</b>   | <b>8.72</b>   |
| 110°  | <b>6.00</b>   | <b>7.06</b>   | <b>7.57</b>   | <b>7.92</b>   | <b>8.18</b>   | <b>8.45</b>   | <b>8.93</b>   |
| 120°  | <b>5.84</b>   | <b>6.95</b>   | <b>7.48</b>   | <b>7.98</b>   | <b>8.46</b>   | <b>8.76</b>   | <b>9.34</b>   |
| 135°  | <b>5.29</b>   | <b>6.48</b>   | <b>7.19</b>   | <b>7.63</b>   | <b>8.13</b>   | <b>8.68</b>   | <b>10.13</b>  |
| 150°  | <b>4.49</b>   | <b>5.60</b>   | <b>6.57</b>   | <b>7.20</b>   | <b>7.61</b>   | <b>8.06</b>   | <b>9.13</b>   |
| Run VMG   | <b>3.89</b>   | <b>4.85</b>   | <b>5.71</b>   | <b>6.38</b>   | <b>6.99</b>   | <b>7.43</b>   | <b>8.29</b>   |
| Gybe Angles                                       | <b>144.6°</b> | <b>148.2°</b> | <b>152.0°</b> | <b>159.6°</b> | <b>180.0°</b> | <b>180.0°</b> | <b>180.0°</b> |