



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020**  
**Club**  
**Double Handed**

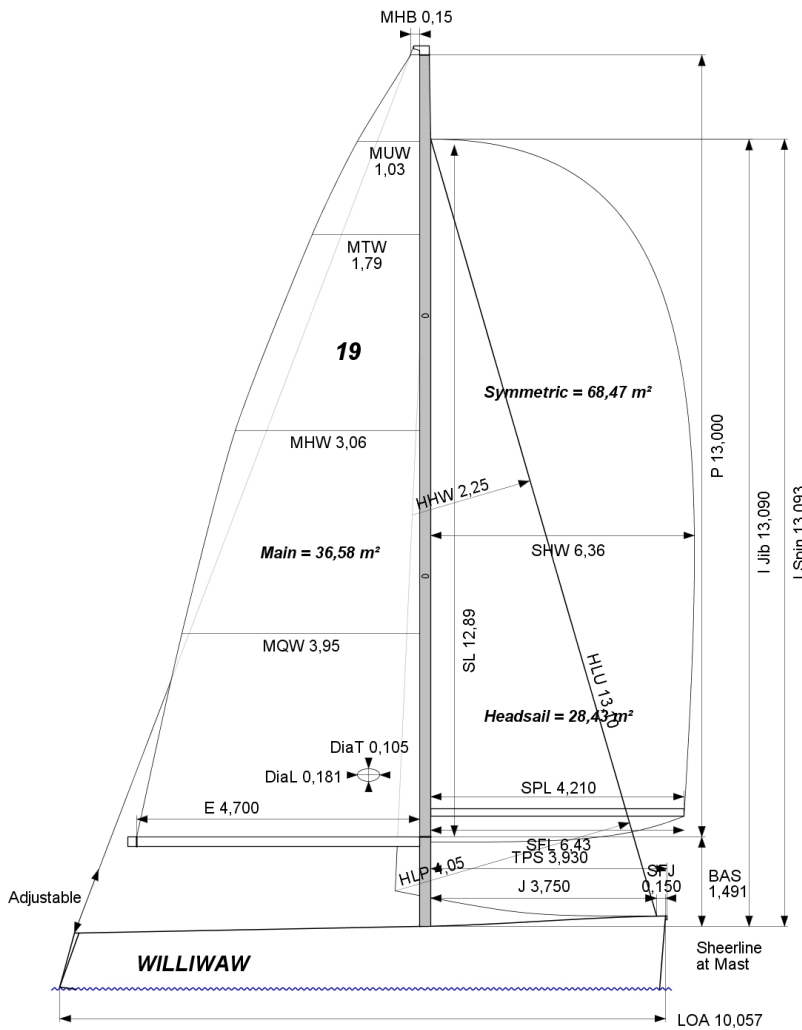
**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number **US6709**  
Issued On **01/09/2020**  
ORC Ref **03410000PIJ**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**



BOAT	
Name	<b>WILLIWAW</b>
Sail Nr	<b>19</b>

GPH	
	<b>608.0</b>

HULL	
Data File	<b>US6708</b>
Offset File	<b>FIGARO2corr.off</b>
Displacement	<b>3,023kg</b>
LOA	<b>10.057m</b>
MB	<b>3.446m</b>
Draft	<b>2.071m</b>

Crew Weight	
Default	<b>170kg</b>
Maximum	<b>170kg</b>
Non Manual Pwr	<b>No</b>

CLASS	
Class	<b>FIGARO 2</b>
Designer	<b>LOMBART</b>
Builder	<b>BENETEAU</b>
Series	<b>10/2003</b>
Age Date	<b>01/2006</b>
Age Allowance	<b>0.487%</b>

IMS Division	<b>Performance</b>	Dynamic All.	<b>0.000%</b>
Fiber Rigging	<b>No</b>	Construction	<b>Cored</b>
Crew Arm Ex	<b>0.00</b>	Aramid Core	<b>No</b>
		Carbon Rudder	<b>No</b>
		Light Stanchions	<b>No</b>

Sails Limitations	
Headsails	<b>5</b>
Spinnakers	<b>4</b>

IMSL	<b>9.913m</b>	VCGD	<b>0.076m</b>	Sink	<b>16.77kg/mm</b>
RL	<b>8.606m</b>	VCGM	<b>0.060m</b>	WS	<b>21.12m²</b>
LSM0	<b>9.828m Displacement/Length ratio 3.1845</b>				

Spinnaker configuration	
Symmetric:	<b>Yes 68.47</b>
Asymmetric:	<b>No</b>
Flying H/S:	<b>No</b>
Spin. Pole:	<b>Yes</b>

COMMENTS	

Water Ballast	<b>260</b>	Trim Tab	<b>No</b>
BLR Index	<b>1.0257</b>		

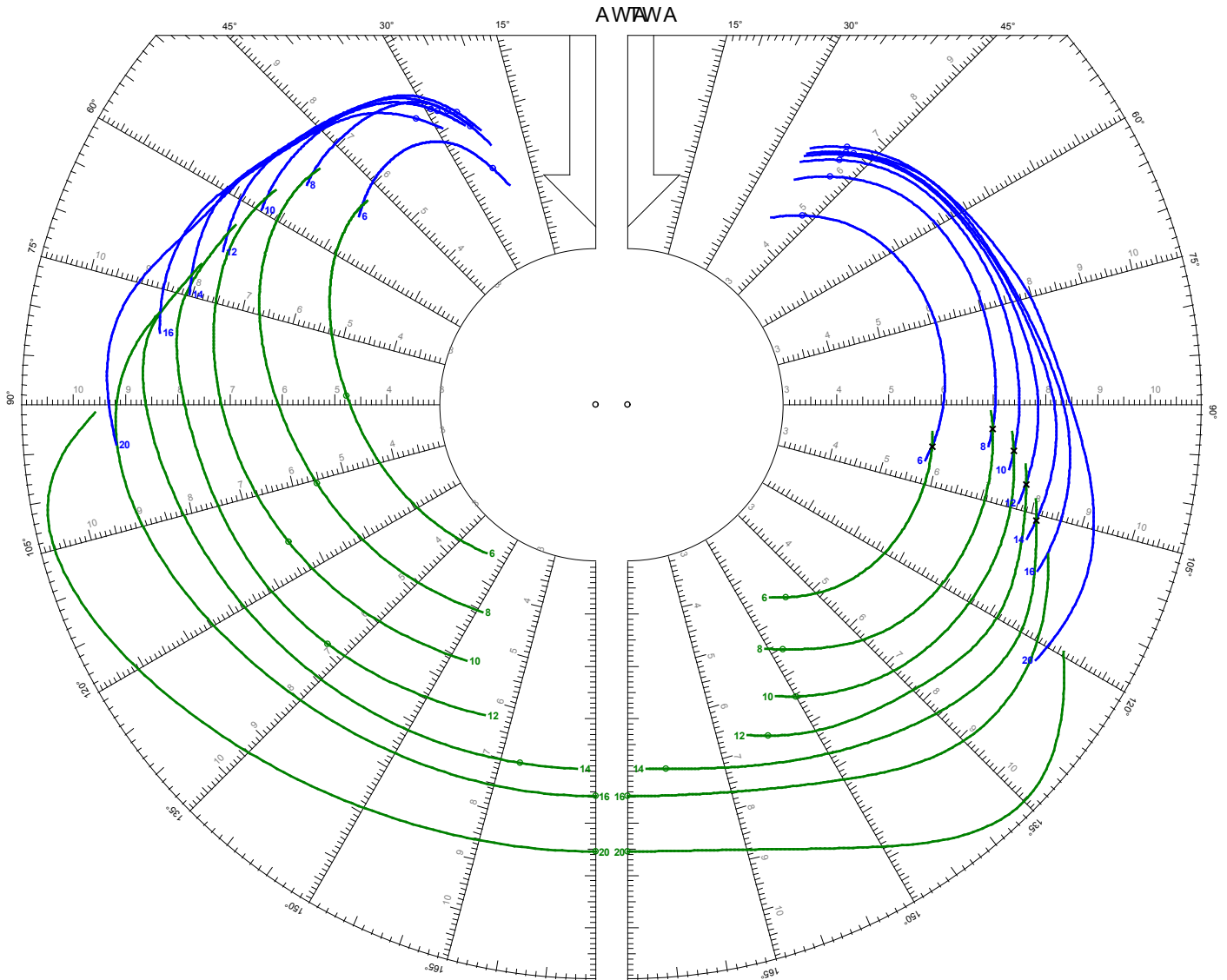
PROPELLER	
Installation	<b>Shaft non exposed</b>
Type	<b>Folding 2 blades</b>
PRD	<b>0.400</b>
PBW	<b>0.100</b>
PIPA	<b>0.0044</b>

CENTERBOARD	
<b>N/A</b>	

Stability (Measured)	
Limit Positive Stab.:	<b>107.2°</b>
Stability Index:	<b>102.2</b>

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	<b>592.2</b>	<b>1.0133</b>
Circular Random	<b>608.0</b>	<b>0.9868</b>
Predominantly Upwind	<b>590.5</b>	<b>1.0161</b>
Predominantly Downwind	<b>548.3</b>	<b>1.0943</b>

Owner	



<b>Polar Plot for Boat</b>
Name <b>WILLIWAW</b>
Sail Number <b>19</b>
Class <b>FIGARO 2</b>
Designer <b>LOMBART</b>
Builder <b>BENETEAU</b>
Issued On <b>01/09/2020 - VPP 2020 1.02</b>

# 2020

## Double Handed Certificate Appendix

<b>BOAT</b>			
Name	<b>WILLIWAW</b>	Certificate Number	<b>US6709</b>
Sail Nr	<b>19</b>	Issued On	<b>01/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>998.5</b>	<b>826.2</b>	<b>743.3</b>	<b>719.8</b>	<b>712.3</b>	<b>702.6</b>	<b>701.7</b>
52°	<b>654.7</b>	<b>550.2</b>	<b>512.4</b>	<b>502.7</b>	<b>498.8</b>	<b>496.0</b>	<b>489.9</b>
60°	<b>619.6</b>	<b>528.0</b>	<b>498.3</b>	<b>487.8</b>	<b>483.0</b>	<b>480.8</b>	<b>471.6</b>
75°	<b>593.1</b>	<b>513.1</b>	<b>486.1</b>	<b>467.7</b>	<b>457.3</b>	<b>451.4</b>	<b>442.9</b>
90°	<b>598.7</b>	<b>513.9</b>	<b>482.5</b>	<b>460.0</b>	<b>437.6</b>	<b>422.0</b>	<b>409.2</b>
110°	<b>619.6</b>	<b>513.2</b>	<b>474.7</b>	<b>443.0</b>	<b>422.7</b>	<b>405.6</b>	<b>380.2</b>
120°	<b>637.8</b>	<b>522.9</b>	<b>478.7</b>	<b>443.5</b>	<b>411.0</b>	<b>386.2</b>	<b>356.8</b>
135°	<b>709.6</b>	<b>569.2</b>	<b>502.9</b>	<b>468.7</b>	<b>433.4</b>	<b>398.0</b>	<b>337.2</b>
150°	<b>851.4</b>	<b>670.4</b>	<b>562.0</b>	<b>502.7</b>	<b>470.0</b>	<b>437.2</b>	<b>370.9</b>
Run VMG	<b>983.1</b>	<b>774.1</b>	<b>649.0</b>	<b>571.7</b>	<b>519.7</b>	<b>483.5</b>	<b>423.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>990.8</b>	<b>800.2</b>	<b>696.2</b>	<b>645.7</b>	<b>616.0</b>	<b>593.1</b>	<b>562.6</b>
Circular Random	<b>833.5</b>	<b>674.3</b>	<b>590.1</b>	<b>541.7</b>	<b>511.5</b>	<b>490.8</b>	<b>462.4</b>
Coastal / Long Distance	<b>990.1</b>	<b>751.9</b>	<b>628.7</b>	<b>562.8</b>	<b>524.7</b>	<b>491.1</b>	<b>438.6</b>
Non Spinnaker	<b>884.2</b>	<b>710.0</b>	<b>616.5</b>	<b>562.1</b>	<b>528.3</b>	<b>505.5</b>	<b>474.9</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>42.8°</b>	<b>41.6°</b>	<b>40.5°</b>	<b>39.4°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>39.6°</b>
Beat VMG	<b>3.61</b>	<b>4.36</b>	<b>4.84</b>	<b>5.00</b>	<b>5.05</b>	<b>5.12</b>	<b>5.13</b>
52°	<b>5.50</b>	<b>6.54</b>	<b>7.03</b>	<b>7.16</b>	<b>7.22</b>	<b>7.26</b>	<b>7.35</b>
60°	<b>5.81</b>	<b>6.82</b>	<b>7.22</b>	<b>7.38</b>	<b>7.45</b>	<b>7.49</b>	<b>7.63</b>
75°	<b>6.07</b>	<b>7.02</b>	<b>7.41</b>	<b>7.70</b>	<b>7.87</b>	<b>7.97</b>	<b>8.13</b>
90°	<b>6.01</b>	<b>7.00</b>	<b>7.46</b>	<b>7.83</b>	<b>8.23</b>	<b>8.53</b>	<b>8.80</b>
110°	<b>5.81</b>	<b>7.01</b>	<b>7.58</b>	<b>8.13</b>	<b>8.52</b>	<b>8.87</b>	<b>9.47</b>
120°	<b>5.64</b>	<b>6.88</b>	<b>7.52</b>	<b>8.12</b>	<b>8.76</b>	<b>9.32</b>	<b>10.09</b>
135°	<b>5.07</b>	<b>6.32</b>	<b>7.16</b>	<b>7.68</b>	<b>8.31</b>	<b>9.04</b>	<b>10.68</b>
150°	<b>4.23</b>	<b>5.37</b>	<b>6.41</b>	<b>7.16</b>	<b>7.66</b>	<b>8.23</b>	<b>9.71</b>
Run VMG	<b>3.66</b>	<b>4.65</b>	<b>5.55</b>	<b>6.30</b>	<b>6.93</b>	<b>7.45</b>	<b>8.50</b>
Gybe Angles	<b>140.5°</b>	<b>147.5°</b>	<b>150.0°</b>	<b>157.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>