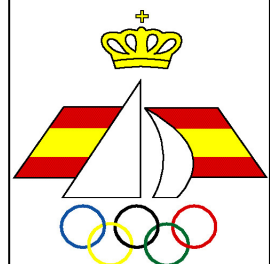




**2020**  
Club  
Double Handed

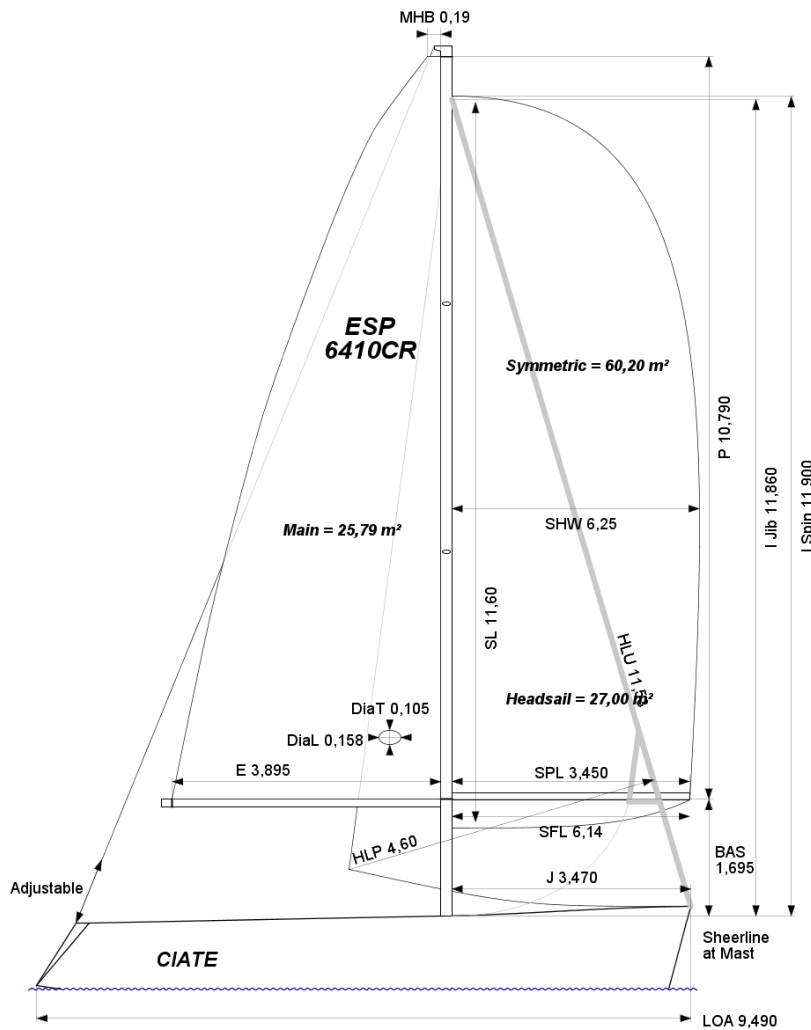
**Rating Office**

R.F.E.V.  
c/Gamazo s/n  
Santander  
crucero@rfev.es

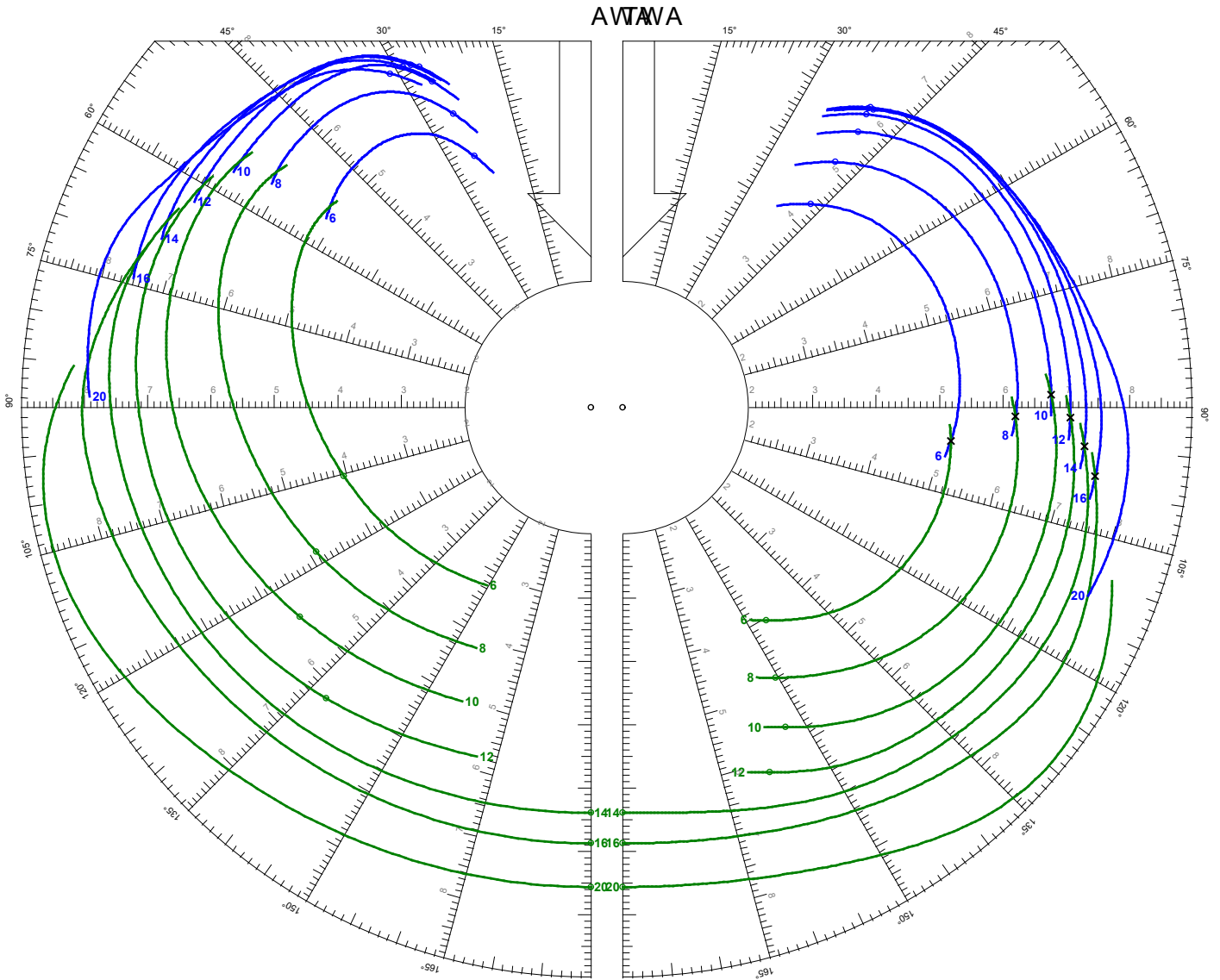


**Certificate**

Number **6410R1**  
Issued On **02/07/2020**  
ORC Ref **03510000LRB**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**



<b>BOAT</b> Name <b>CIATE</b> Sail Nr <b>ESP-6410_C_R</b>		<b>GPH</b> <b>676,4</b>	<b>HULL</b> Data File <b>E6410_C_R</b> LOA <b>9,490m</b> Offset File <b>F171.OFF</b> MB <b>3,216m</b> Displacement <b>3.712kg</b> Draft <b>1,923m</b>		<b>Crew Weight</b> Default <b>170kg</b> Maximum <b>170kg</b> Non Manual Pwr <b>No</b>
<b>CLASS</b> Class <b>FIRST 31.7</b> Designer <b>FINOT</b> Builder <b>BENETEAU</b> Series <b>09/1998</b> Age Date <b>08/2002</b> Age Allowance <b>0,487%</b>			<b>IMS Division</b> <b>Cruiser/Racer</b> Dynamic All. <b>0,305%</b> Fwd Accom. <b>Yes</b> Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>		<b>Sails Limitations</b> Headsails <b>1</b> Spinnakers <b>4</b>
<b>COMMENTS</b> SOLO VALIDO TRIP.REDUCIDA			<b>IMS</b> <b>8,981m</b> VCGD <b>-0,007m</b> Sink <b>15,71kg/mm</b> <b>RL</b> <b>7,208m</b> VCGM <b>-0,047m</b> WS <b>20,41m²</b> <b>LSM0</b> <b>8,926m</b> Displacement/Length ratio		<b>Spinnaker configuration</b> Symmetric: <b>Yes</b> <b>60,20</b> Asymmetric: <b>No</b> Flying H/S: <b>No</b> Spin. Pole: <b>Yes</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0,300</b> Type <b>Folding 2 blades</b> PIPA <b>0,0032</b>		<b>CENTERBOARD</b> <b>N/A</b>		<b>Stability (Estimated)</b> Limit Positive Stab.: <b>118,6°</b> Stability Index: <b>116,8</b>	
<b>SCORING OPTIONS</b>					
	Time on Distance	Time on Time			
Coastal or Long Distance	<b>656,5</b>	<b>0,9139</b>			
Circular Random	<b>676,4</b>	<b>0,8870</b>			
Predominantly Upwind	<b>654,8</b>	<b>0,9164</b>			
Predominantly Downwind	<b>610,4</b>	<b>0,9829</b>			
<b>Owner</b>					



Polar Plot for Boat	
Name	CIATE
Sail Number	ESP-6410_C_R
Class	FIRST 31.7
Designer	FINOT
Builder	BENETEAU
Issued On	02/07/2020 - VPP 2020 1.02

<b>BOAT</b>	
Name	<b>CIATE</b>
Sail Nr	<b>ESP-6410_C_R</b>
Certificate Number	<b>6410R1</b>
Issued On	<b>02/07/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1135,4</b>	<b>940,7</b>	<b>836,6</b>	<b>786,5</b>	<b>770,9</b>	<b>767,1</b>	<b>771,7</b>
52°	<b>745,9</b>	<b>630,5</b>	<b>568,6</b>	<b>544,3</b>	<b>536,6</b>	<b>533,7</b>	<b>533,3</b>
60°	<b>706,9</b>	<b>601,3</b>	<b>549,9</b>	<b>529,1</b>	<b>520,7</b>	<b>517,2</b>	<b>516,8</b>
75°	<b>677,2</b>	<b>579,7</b>	<b>536,3</b>	<b>515,8</b>	<b>502,4</b>	<b>494,2</b>	<b>489,0</b>
90°	<b>682,7</b>	<b>581,7</b>	<b>532,1</b>	<b>511,8</b>	<b>494,5</b>	<b>479,0</b>	<b>457,2</b>
110°	<b>694,5</b>	<b>574,9</b>	<b>523,6</b>	<b>497,0</b>	<b>474,2</b>	<b>460,0</b>	<b>439,4</b>
120°	<b>715,1</b>	<b>588,9</b>	<b>529,6</b>	<b>500,7</b>	<b>475,3</b>	<b>450,6</b>	<b>418,7</b>
135°	<b>790,6</b>	<b>643,4</b>	<b>558,1</b>	<b>518,7</b>	<b>492,7</b>	<b>466,4</b>	<b>415,6</b>
150°	<b>935,7</b>	<b>736,9</b>	<b>624,2</b>	<b>553,3</b>	<b>518,2</b>	<b>493,8</b>	<b>444,7</b>
Run VMG	<b>1080,5</b>	<b>850,9</b>	<b>719,1</b>	<b>630,3</b>	<b>567,6</b>	<b>527,7</b>	<b>479,4</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1108,0</b>	<b>895,8</b>	<b>777,8</b>	<b>708,4</b>	<b>669,2</b>	<b>647,4</b>	<b>625,6</b>
Circular Random	<b>932,7</b>	<b>752,4</b>	<b>655,9</b>	<b>600,5</b>	<b>567,2</b>	<b>546,2</b>	<b>521,1</b>
Coastal / Long Distance	<b>1105,2</b>	<b>842,1</b>	<b>700,8</b>	<b>619,1</b>	<b>577,5</b>	<b>545,7</b>	<b>494,9</b>
Non Spinnaker	<b>985,0</b>	<b>789,1</b>	<b>683,1</b>	<b>621,5</b>	<b>584,2</b>	<b>560,6</b>	<b>532,2</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>40,9°</b>	<b>40,5°</b>	<b>39,8°</b>	<b>39,4°</b>	<b>39,6°</b>	<b>40,1°</b>
Beat VMG	<b>3,17</b>	<b>3,83</b>	<b>4,30</b>	<b>4,58</b>	<b>4,67</b>	<b>4,69</b>	<b>4,67</b>
52°	<b>4,83</b>	<b>5,71</b>	<b>6,33</b>	<b>6,61</b>	<b>6,71</b>	<b>6,75</b>	<b>6,75</b>
60°	<b>5,09</b>	<b>5,99</b>	<b>6,55</b>	<b>6,80</b>	<b>6,91</b>	<b>6,96</b>	<b>6,97</b>
75°	<b>5,32</b>	<b>6,21</b>	<b>6,71</b>	<b>6,98</b>	<b>7,17</b>	<b>7,29</b>	<b>7,36</b>
90°	<b>5,27</b>	<b>6,19</b>	<b>6,77</b>	<b>7,03</b>	<b>7,28</b>	<b>7,52</b>	<b>7,87</b>
110°	<b>5,18</b>	<b>6,26</b>	<b>6,88</b>	<b>7,24</b>	<b>7,59</b>	<b>7,83</b>	<b>8,19</b>
120°	<b>5,03</b>	<b>6,11</b>	<b>6,80</b>	<b>7,19</b>	<b>7,57</b>	<b>7,99</b>	<b>8,60</b>
135°	<b>4,55</b>	<b>5,60</b>	<b>6,45</b>	<b>6,94</b>	<b>7,31</b>	<b>7,72</b>	<b>8,66</b>
150°	<b>3,85</b>	<b>4,89</b>	<b>5,77</b>	<b>6,51</b>	<b>6,95</b>	<b>7,29</b>	<b>8,10</b>
Run VMG	<b>3,33</b>	<b>4,23</b>	<b>5,01</b>	<b>5,71</b>	<b>6,34</b>	<b>6,82</b>	<b>7,51</b>
Gybe Angles	<b>146,0°</b>	<b>150,5°</b>	<b>153,0°</b>	<b>158,0°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>