

|                                                                                                                                                                                                                                                                             |              |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BOAT</b>                                                                                                                                                                                                                                                                 | <b>GPH</b>   | <b>HULL</b>                                                                                                                                                                                                                                                                                                      |
| Name <b>BANZAI</b><br>Sail Nr <b>ARG-4056</b>                                                                                                                                                                                                                               | <b>655,0</b> | Length Overall <b>9,500m</b><br>Maximum Beam <b>3,290m</b><br>Displacement <b>3.814kg</b><br>Draft <b>1,922m</b><br>IMS Reg. Division <b>Cruiser/Racer</b><br>Dynamic Allowance <b>0,099%</b><br>Fwd Accommodation <b>Yes</b><br>Hull Construction <b>Solid</b><br>Carbon Rudder <b>No</b><br>Crew Arm Extension |
| <b>GENERAL</b>                                                                                                                                                                                                                                                              |              | IMSL <b>8,833m</b> VCGD <b>0,058m</b> Sink <b>14,67kg/mm</b>                                                                                                                                                                                                                                                     |
| Class <b>PANDORA 31</b><br>Designer <b>GERMAN FRERS</b><br>Builder <b>AST. MARCO</b><br>Series <b>06/1994</b><br>Age <b>06/1994</b><br>Age Allowance <b>0,487%</b><br>Offset File <b>ARG4056.OFF - 08/09/2011 02:33:04</b><br>Measurement by <b>JC MACULAN - 06/11/2014</b> |              | RL <b>7,798m</b> VCGM <b>0,086m</b> WS <b>19,79m<sup>2</sup></b>                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                             |              | LSM0 <b>8,780m</b> Displacement/Length ratio <b>5,6350</b>                                                                                                                                                                                                                                                       |



World Leader in Rating Technology

**2017**  
ORC International  
Certificate

**Rating Office**  
**PATRICIO D. GUTIERREZ**  
**C. GRIERSON Y**  
**COSTANERASUR**  
**Y.C.A**



| <b>SCORING OPTIONS</b> |                                |               |               |                           |               |               |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
|                        | <b>COASTAL / LONG DISTANCE</b> |               |               | <b>WINDWARD / LEEWARD</b> |               |               |
| Time On Distance       | <b>637,5</b>                   |               |               | <b>709,6</b>              |               |               |
| Time On Time           | <b>0,9412</b>                  |               |               | <b>0,9512</b>             |               |               |
| Triple Number          | Low                            | Medium        | High          | Low                       | Medium        | High          |
| Time on Distance       | <b>748,9</b>                   | <b>580,8</b>  | <b>517,4</b>  | <b>970,4</b>              | <b>713,9</b>  | <b>617,3</b>  |
| Time on Time           | <b>0,9013</b>                  | <b>1,1621</b> | <b>1,3047</b> | <b>0,6956</b>             | <b>0,9455</b> | <b>1,0935</b> |

| <b>TIME ALLOWANCES</b>  |               |              |              |              |              |              |              |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity           | 6 kt          | 8 kt         | 10 kt        | 12 kt        | 14 kt        | 16 kt        | 20 kt        |
| Beat VMG                | <b>1085,7</b> | <b>906,7</b> | <b>804,9</b> | <b>756,2</b> | <b>733,9</b> | <b>722,2</b> | <b>714,7</b> |
| 52°                     | <b>711,4</b>  | <b>599,9</b> | <b>548,2</b> | <b>528,7</b> | <b>520,8</b> | <b>516,4</b> | <b>513,6</b> |
| 60°                     | <b>670,7</b>  | <b>571,5</b> | <b>532,7</b> | <b>515,0</b> | <b>506,1</b> | <b>501,0</b> | <b>497,1</b> |
| 75°                     | <b>637,7</b>  | <b>552,1</b> | <b>520,9</b> | <b>501,4</b> | <b>486,0</b> | <b>475,0</b> | <b>466,7</b> |
| 90°                     | <b>639,5</b>  | <b>551,3</b> | <b>517,2</b> | <b>498,4</b> | <b>479,7</b> | <b>461,7</b> | <b>437,7</b> |
| 110°                    | <b>670,8</b>  | <b>557,6</b> | <b>515,4</b> | <b>488,6</b> | <b>462,8</b> | <b>448,3</b> | <b>426,7</b> |
| 120°                    | <b>694,2</b>  | <b>572,1</b> | <b>522,4</b> | <b>495,5</b> | <b>469,3</b> | <b>442,7</b> | <b>408,8</b> |
| 135°                    | <b>770,9</b>  | <b>627,5</b> | <b>548,1</b> | <b>513,8</b> | <b>489,1</b> | <b>463,6</b> | <b>413,6</b> |
| 150°                    | <b>913,6</b>  | <b>722,2</b> | <b>610,7</b> | <b>544,3</b> | <b>513,2</b> | <b>489,9</b> | <b>442,4</b> |
| Run VMG                 | <b>1054,9</b> | <b>834,1</b> | <b>703,6</b> | <b>616,3</b> | <b>555,9</b> | <b>520,8</b> | <b>474,7</b> |
| <b>Selected Courses</b> |               |              |              |              |              |              |              |
| Windward / Leeward      | <b>1070,3</b> | <b>870,4</b> | <b>754,2</b> | <b>686,2</b> | <b>644,9</b> | <b>621,5</b> | <b>594,7</b> |
| Circular Random         | <b>900,1</b>  | <b>727,8</b> | <b>635,6</b> | <b>582,2</b> | <b>549,2</b> | <b>527,5</b> | <b>499,7</b> |
| Ocean for PCS           | <b>1105,3</b> | <b>854,7</b> | <b>713,6</b> | <b>627,5</b> | <b>571,7</b> | <b>532,5</b> | <b>477,8</b> |
| Non Spinnaker           | <b>942,7</b>  | <b>757,9</b> | <b>658,1</b> | <b>599,7</b> | <b>563,6</b> | <b>539,8</b> | <b>509,0</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>42,9°</b>  | <b>41,8°</b>  | <b>41,5°</b>  | <b>39,7°</b>  | <b>38,6°</b>  | <b>38,3°</b>  | <b>38,2°</b>  |
| Beat VMG                                                 | <b>3,32</b>   | <b>3,97</b>   | <b>4,47</b>   | <b>4,76</b>   | <b>4,91</b>   | <b>4,98</b>   | <b>5,04</b>   |
| 52°                                                      | <b>5,06</b>   | <b>6,00</b>   | <b>6,57</b>   | <b>6,81</b>   | <b>6,91</b>   | <b>6,97</b>   | <b>7,01</b>   |
| 60°                                                      | <b>5,37</b>   | <b>6,30</b>   | <b>6,76</b>   | <b>6,99</b>   | <b>7,11</b>   | <b>7,19</b>   | <b>7,24</b>   |
| 75°                                                      | <b>5,65</b>   | <b>6,52</b>   | <b>6,91</b>   | <b>7,18</b>   | <b>7,41</b>   | <b>7,58</b>   | <b>7,71</b>   |
| 90°                                                      | <b>5,63</b>   | <b>6,53</b>   | <b>6,96</b>   | <b>7,22</b>   | <b>7,51</b>   | <b>7,80</b>   | <b>8,22</b>   |
| 110°                                                     | <b>5,37</b>   | <b>6,46</b>   | <b>6,99</b>   | <b>7,37</b>   | <b>7,78</b>   | <b>8,03</b>   | <b>8,44</b>   |
| 120°                                                     | <b>5,19</b>   | <b>6,29</b>   | <b>6,89</b>   | <b>7,27</b>   | <b>7,67</b>   | <b>8,13</b>   | <b>8,81</b>   |
| 135°                                                     | <b>4,67</b>   | <b>5,74</b>   | <b>6,57</b>   | <b>7,01</b>   | <b>7,36</b>   | <b>7,76</b>   | <b>8,70</b>   |
| 150°                                                     | <b>3,94</b>   | <b>4,98</b>   | <b>5,89</b>   | <b>6,61</b>   | <b>7,01</b>   | <b>7,35</b>   | <b>8,14</b>   |
| Run VMG                                                  | <b>3,41</b>   | <b>4,32</b>   | <b>5,12</b>   | <b>5,84</b>   | <b>6,48</b>   | <b>6,91</b>   | <b>7,58</b>   |
| Gybe Angles                                              | <b>146,0°</b> | <b>150,8°</b> | <b>152,3°</b> | <b>159,5°</b> | <b>180,0°</b> | <b>180,0°</b> | <b>180,0°</b> |

**Certificate**  
Number **405601**  
ORC Ref **ARG00004509**  
Issued On **10/03/2017**  
VPP Ver. **2017 1.00**  
Valid until **31/12/2017**

**Crew Weight**  
Declared **520kg**  
Default\* **572kg**  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Double H.GPH **659,8 0,9093**  
Double H.OSN **643,7 0,9321**  
Non Spin GPH **678,8 0,8839**  
Non Spin OSN **659,5 0,9098**

| <b>Sails Limitations</b> |            |
|--------------------------|------------|
| Headsails                | Spinnakers |
| <b>5</b>                 | <b>3</b>   |

| <b>Class Division Length</b> |
|------------------------------|
| <b>CDL = 8,316</b>           |

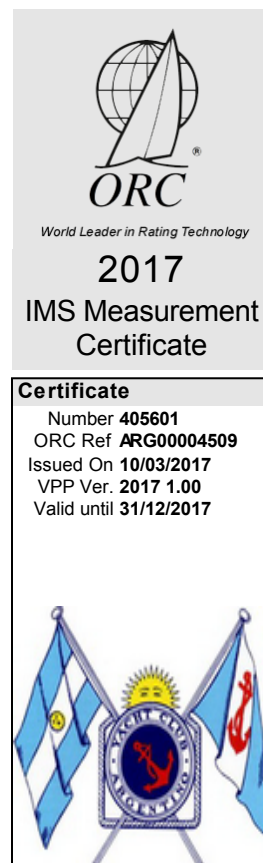
| <b>Storm Sails Areas</b> |              |
|--------------------------|--------------|
| Heavy Weather Jib        | <b>19,05</b> |
| Storm Jib (JL=7,72)      | <b>7,06</b>  |
| Storm Trysail            | <b>8,98</b>  |

**Owner**  
**ESCALANTE**

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

Signature

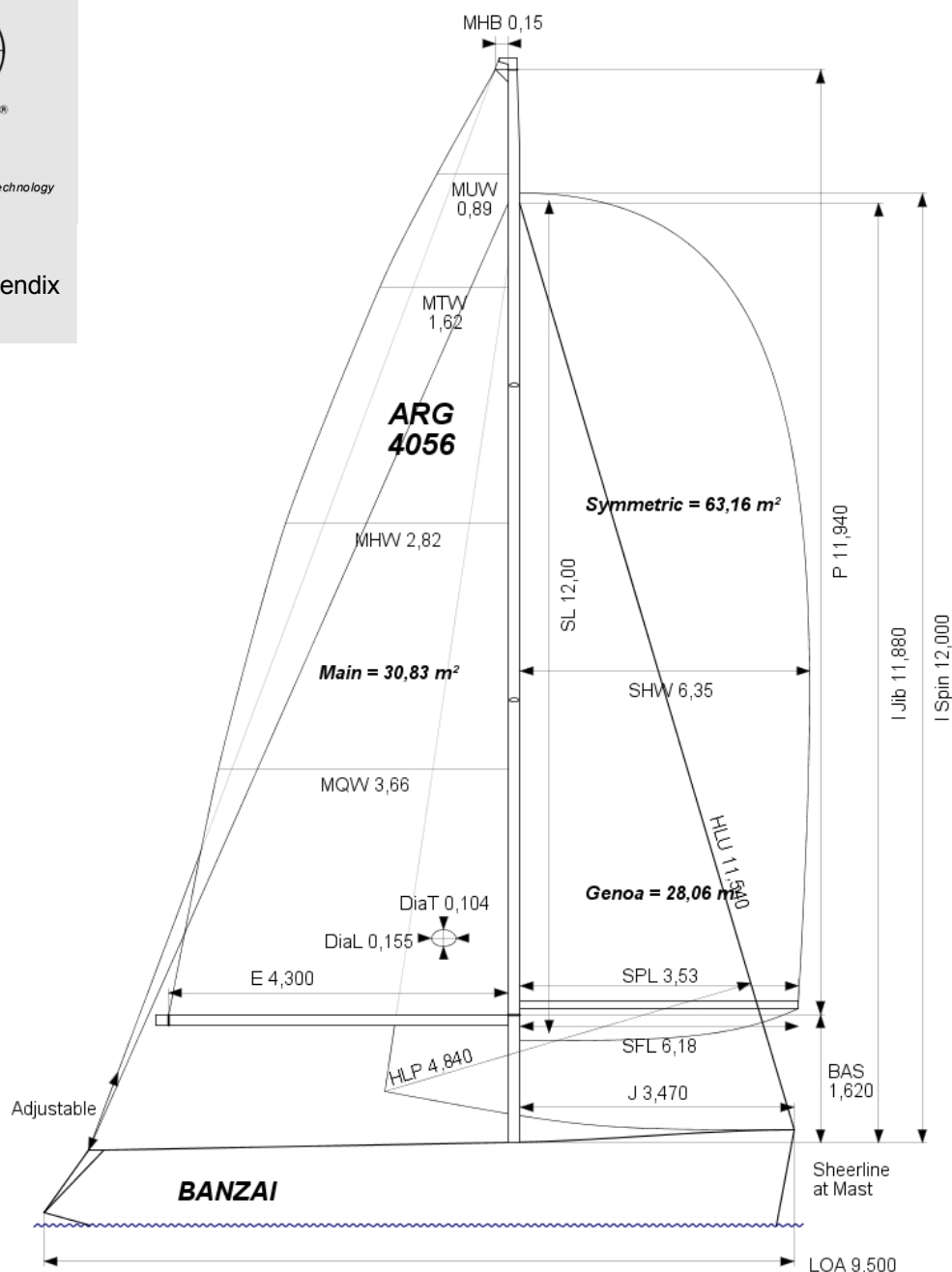
|                                                                                                                                                                                                                                                                                                                      |                                 |                                                     |                       |      |      |       |          |                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|-----------------------|------|------|-------|----------|-----------------------------------------------------------------------------------|
| <b>BOAT</b>                                                                                                                                                                                                                                                                                                          |                                 | <b>INCLINING TEST AND FREEBOARDS</b>                |                       |      |      |       |          |                                                                                   |
| Name <b>BANZA</b>                                                                                                                                                                                                                                                                                                    | Sail Nr <b>ARG-4056</b>         | Inclining Test <b>Boom Inclining</b>                |                       |      |      |       |          |                                                                                   |
| File <b>BANZA</b>                                                                                                                                                                                                                                                                                                    | Data in <b>meters/kilograms</b> | Flotation date <b>06/11/2014</b> SG <b>1,0000</b>   |                       |      |      |       |          |                                                                                   |
| <b>RIG</b>                                                                                                                                                                                                                                                                                                           |                                 | FFM <b>1,204</b> FF <b>1,212</b> SFFP <b>0,170</b>  |                       |      |      |       |          |                                                                                   |
| Forestay Tension <b>Aft</b>                                                                                                                                                                                                                                                                                          | Spreaders <b>2</b>              | FAM <b>0,939</b> FA <b>0,944</b> SAFFP <b>8,749</b> |                       |      |      |       |          |                                                                                   |
| Inner Stay <b>None Fitted</b>                                                                                                                                                                                                                                                                                        | Runners <b>1</b>                | W1 <b>61,9</b> PD1 <b>639,7</b> WD <b>8,520</b>     |                       |      |      |       |          |                                                                                   |
| Carbon Mast <b>No</b>                                                                                                                                                                                                                                                                                                | Jumper Struts <b>None</b>       | W2 <b>61,9</b> PD2 <b>640,4</b> GSA <b>1,0</b>      |                       |      |      |       |          |                                                                                   |
| Taper Hollows <b>No</b>                                                                                                                                                                                                                                                                                              | Jib Furler <b>No</b>            | W3 <b>61,9</b> PD3 <b>645,9</b> RSA <b>1,0</b>      |                       |      |      |       |          |                                                                                   |
| Fiber Rigging <b>No</b>                                                                                                                                                                                                                                                                                              | Main Furler <b>No</b>           | W4 <b>61,9</b> PD4 <b>643,2</b> PLM <b>9000,0</b>   |                       |      |      |       |          |                                                                                   |
| Lenticular Rigging                                                                                                                                                                                                                                                                                                   | Without Backstay <b>No</b>      | LCF from stem on CL / on sheer                      | <b>5,306 / 5,538</b>  |      |      |       |          |                                                                                   |
| Articulated Bowsprit <b>No</b>                                                                                                                                                                                                                                                                                       |                                 | Maximum beam station from stem                      | <b>5,989</b>          |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | RM Measured                                         | <b>64,7kg-m</b>       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | RM Default                                          | <b>76,5kg-m</b>       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | Limit of positive stability / Stab.Index            | <b>113,9° / 111,5</b> |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | Freeboard at mast at 3,470                          | <b>1,038</b>          |      |      |       |          |                                                                                   |
| P <b>11,940</b> E <b>4,300</b> MDT1 <b>0,104</b> MW <b>0,155</b><br>IG <b>11,880</b> J <b>3,470</b> MDL1 <b>0,155</b> GO <b>0,155</b><br>ISP <b>12,000</b> SFJ <b>0,000</b> MDT2 <b>0,104</b> BD <b>0,140</b><br>BAS <b>1,620</b> SPL <b>3,530</b> MDL2 <b>0,110</b> MWT<br>FSP <b>0,060</b> TPS TL <b>1,000</b> MCG |                                 | <b>PROPELLER</b>                                    |                       |      |      |       |          |                                                                                   |
| <b>MIZZEN RIG AND SAILS</b>                                                                                                                                                                                                                                                                                          |                                 | Installation <b>Strut</b> PRD <b>0,405</b>          |                       |      |      |       |          |                                                                                   |
| N/A                                                                                                                                                                                                                                                                                                                  |                                 | Type <b>Folding 2 blades</b> PBW <b>0,100</b>       |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | Twin Screw <b>No</b> PIPA <b>0,0032</b>             |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | ST1 <b>0,042</b> ST3 <b>0,180</b> ST5 <b>0,270</b>  |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | ST2 <b>0,180</b> ST4 <b>0,112</b> EDL <b>2,000</b>  |                       |      |      |       |          |                                                                                   |
| <b>COMMENTS</b>                                                                                                                                                                                                                                                                                                      |                                 | <b>MOVEABLE BALLAST</b>                             |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | N/A                                                 |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 |                                                     |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | <b>CENTERBOARD</b>                                  |                       |      |      |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      |                                 | N/A                                                 |                       |      |      |       |          |                                                                                   |
| <b>SAILS (Maximum Areas)</b>                                                                                                                                                                                                                                                                                         |                                 |                                                     |                       |      |      |       |          |                                                                                   |
| Mainsail                                                                                                                                                                                                                                                                                                             | MHB                             | MUW                                                 | MTW                   | MHW  | MQW  | Area  | Area (r) | Formula                                                                           |
|                                                                                                                                                                                                                                                                                                                      | 0,150                           | 0,89                                                | 1,62                  | 2,82 | 3,66 | 30,83 | 31,51    | $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$ |
| Symmetric                                                                                                                                                                                                                                                                                                            | SLU                             | SLE                                                 | SL                    | SHW  | SFL  |       |          |                                                                                   |
|                                                                                                                                                                                                                                                                                                                      | 12,00                           | 12,00                                               | 12,00                 | 6,35 | 6,18 | 63,16 |          | $SL \cdot (SFL + 4 \cdot SHW) / 6$                                                |
| <b>Asymmetric</b>                                                                                                                                                                                                                                                                                                    |                                 |                                                     |                       |      |      |       |          |                                                                                   |
| Not Available                                                                                                                                                                                                                                                                                                        |                                 |                                                     |                       |      |      |       |          |                                                                                   |
| <b>HEADSAILS</b>                                                                                                                                                                                                                                                                                                     |                                 |                                                     |                       |      |      |       |          |                                                                                   |
| Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$                                                                                                                                                                                                  |                                 |                                                     |                       |      |      |       |          |                                                                                   |
| HHB                                                                                                                                                                                                                                                                                                                  | HUW                             | HTW                                                 | HHW                   | HQW  | HLP  | HLU   | Area     | Btn Fly Meas.Date Material Comment                                                |
| 0,07                                                                                                                                                                                                                                                                                                                 | 0,63                            | 1,21                                                | 2,42                  | 3,65 | 4,84 | 11,54 | 28,06    | 07/11/2014 Kevlar                                                                 |
|                                                                                                                                                                                                                                                                                                                      |                                 |                                                     |                       |      | 3,64 | 11,67 | 21,62    | * Copied from legacy *                                                            |





World Leader in Rating Technology

# 2017 Certificate Appendix Sail Plan



## SAILS INVENTORY

### MAINSAIL (1)

| Id | MHB   | MUW  | MTW  | MHW  | MQW  | Area  | Measurer | Meas.Date  | Manufacture | Material | Comment |
|----|-------|------|------|------|------|-------|----------|------------|-------------|----------|---------|
| M2 | 0,150 | 0,89 | 1,62 | 2,82 | 3,66 | 30,83 | NP       | 07/11/2014 | NORTH       | Kevlar   |         |

### HEADSAILS (2)

| Id   | HHB  | HUW  | HTW  | HHW  | HQW  | HLP  | HLU   | Ovrlp | Area  | Btn | Fly | Measurer | Meas.Date  | Manufacture | Material | Comment                |
|------|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|------------|-------------|----------|------------------------|
| G1 M | 0,07 | 0,63 | 1,21 | 2,42 | 3,65 | 4,84 | 11,54 | 139%  | 28,06 |     |     | NP       | 07/11/2014 | NORTH       | Kevlar   |                        |
| G3   |      |      |      |      |      | 3,64 | 11,67 | 105%  | 21,62 |     |     |          |            |             |          | * Copied from legacy * |

### SYMMETRIC SPINNAKERS (1)

| Id | SLU   | SLE   | SL    | SHW  | SFL  | Area  | Measurer | Meas.Date  | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|----------|------------|-------------|----------|---------|
| S2 | 12,00 | 12,00 | 12,00 | 6,35 | 6,18 | 63,16 |          | 04/01/2017 | NORTH       | Nylon    | NUEVO   |

### ASYMMETRIC SPINNAKERS (0)

| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-----|-----|----|-----|-----|------|------|----------|-----------|-------------|----------|---------|
|----|-----|-----|----|-----|-----|------|------|----------|-----------|-------------|----------|---------|