

<b>BOAT</b> Name <b>SORSA III</b> Sail Nr <b>BRA 2287</b>	<b>GPH</b> <b>496.8</b>	<b>HULL</b> Length Overall <b>15.490m</b> Maximum Beam <b>4.108m</b> Displacement <b>9,517kg</b> Draft <b>3.105m</b> Plan Review IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Hull Construction <b>Light</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FARR 51</b> Designer <b>FARR</b> Builder <b>SERIGI</b> Series <b>05/2001</b> Age <b>06/2001</b> Age Allowance <b>0.487%</b> Offset File <b>SORSA3_3.off - 24/02/2018 09:25:44</b> Measurement by - <b>13/03/2017</b>		IMSL <b>13.542m</b> VCGD <b>-0.149m</b> Sink <b>31.83kg/mm</b> RL <b>12.966m</b> VCGM <b>-0.182m</b> WS <b>41.97m<sup>2</sup></b> LSM0 <b>13.252m</b> Displacement/Length ratio <b>4.0894</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>486.6</b>			<b>548.5</b>		
Time on Time	<b>1.2330</b>			<b>1.2306</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>557.6</b>	<b>444.5</b>	<b>395.1</b>	<b>726.6</b>	<b>554.3</b>	<b>483.0</b>
Time on Time	<b>1.2106</b>	<b>1.5186</b>	<b>1.7083</b>	<b>0.9290</b>	<b>1.2177</b>	<b>1.3974</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>773.3</b>	<b>650.7</b>	<b>607.6</b>	<b>586.4</b>	<b>575.2</b>	<b>561.1</b>	<b>557.7</b>
52°	<b>505.7</b>	<b>437.4</b>	<b>419.8</b>	<b>411.8</b>	<b>407.5</b>	<b>401.8</b>	<b>396.6</b>
60°	<b>475.9</b>	<b>420.7</b>	<b>406.6</b>	<b>399.1</b>	<b>394.3</b>	<b>390.2</b>	<b>381.2</b>
75°	<b>455.5</b>	<b>409.0</b>	<b>390.4</b>	<b>380.0</b>	<b>373.0</b>	<b>368.1</b>	<b>356.5</b>
90°	<b>460.3</b>	<b>410.2</b>	<b>385.4</b>	<b>365.8</b>	<b>354.4</b>	<b>346.7</b>	<b>338.5</b>
110°	<b>509.8</b>	<b>423.2</b>	<b>389.6</b>	<b>368.9</b>	<b>353.2</b>	<b>337.5</b>	<b>306.7</b>
120°	<b>530.9</b>	<b>432.8</b>	<b>395.2</b>	<b>365.4</b>	<b>342.6</b>	<b>328.0</b>	<b>298.7</b>
135°	<b>597.2</b>	<b>476.5</b>	<b>417.9</b>	<b>388.9</b>	<b>360.9</b>	<b>333.9</b>	<b>277.9</b>
150°	<b>715.8</b>	<b>568.0</b>	<b>478.7</b>	<b>424.3</b>	<b>395.3</b>	<b>369.0</b>	<b>317.2</b>
Run VMG	<b>826.6</b>	<b>655.9</b>	<b>552.7</b>	<b>486.9</b>	<b>445.5</b>	<b>413.3</b>	<b>363.6</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>799.9</b>	<b>653.3</b>	<b>580.2</b>	<b>536.7</b>	<b>510.4</b>	<b>487.2</b>	<b>460.7</b>
Circular Random	<b>674.5</b>	<b>549.1</b>	<b>482.9</b>	<b>444.6</b>	<b>420.0</b>	<b>402.5</b>	<b>377.4</b>
Coastal / Long Distance	<b>802.6</b>	<b>614.2</b>	<b>521.6</b>	<b>463.9</b>	<b>432.0</b>	<b>404.5</b>	<b>361.6</b>
Non Spinnaker	<b>709.4</b>	<b>574.5</b>	<b>502.1</b>	<b>459.3</b>	<b>431.8</b>	<b>412.8</b>	<b>387.5</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>40.5°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>37.9°</b>	<b>38.3°</b>
Beat VMG	<b>4.66</b>	<b>5.53</b>	<b>5.92</b>	<b>6.14</b>	<b>6.26</b>	<b>6.42</b>	<b>6.45</b>
52°	<b>7.12</b>	<b>8.23</b>	<b>8.58</b>	<b>8.74</b>	<b>8.84</b>	<b>8.96</b>	<b>9.08</b>
60°	<b>7.57</b>	<b>8.56</b>	<b>8.85</b>	<b>9.02</b>	<b>9.13</b>	<b>9.23</b>	<b>9.44</b>
75°	<b>7.90</b>	<b>8.80</b>	<b>9.22</b>	<b>9.47</b>	<b>9.65</b>	<b>9.78</b>	<b>10.10</b>
90°	<b>7.82</b>	<b>8.78</b>	<b>9.34</b>	<b>9.84</b>	<b>10.16</b>	<b>10.38</b>	<b>10.63</b>
110°	<b>7.06</b>	<b>8.51</b>	<b>9.24</b>	<b>9.76</b>	<b>10.19</b>	<b>10.67</b>	<b>11.74</b>
120°	<b>6.78</b>	<b>8.32</b>	<b>9.11</b>	<b>9.85</b>	<b>10.51</b>	<b>10.97</b>	<b>12.05</b>
135°	<b>6.03</b>	<b>7.55</b>	<b>8.61</b>	<b>9.26</b>	<b>9.97</b>	<b>10.78</b>	<b>12.95</b>
150°	<b>5.03</b>	<b>6.34</b>	<b>7.52</b>	<b>8.48</b>	<b>9.11</b>	<b>9.76</b>	<b>11.35</b>
Run VMG	<b>4.36</b>	<b>5.49</b>	<b>6.51</b>	<b>7.39</b>	<b>8.08</b>	<b>8.71</b>	<b>9.90</b>
Gybe Angles	<b>142.0°</b>	<b>142.0°</b>	<b>146.0°</b>	<b>153.5°</b>	<b>161.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Certificate**

Number **228701**  
ORC Ref **02980000EIN**  
Issued On **06/03/2020**  
VPP Ver. **2020 1.01**  
Valid until **31/12/2020**

**Crew Weight**

Default **1,028kg**  
Maximum **1,020kg**  
Minimum\* **765kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>516.9</b>	<b>1.1608</b>
Non Spin OSN	<b>508.1</b>	<b>1.1808</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</b>	<b>5</b>

**Class Division Length**

CDL = **13.248**

**Storm Sails Areas**

Heavy Weather Jib **51.43**  
Storm Jib (JL=12.69) **19.05**  
Storm Trysail **29.52**

**Owner**

<b>BOAT</b>	
Name <b>SORSA III</b>	Sail Nr <b>BRA 2287</b>
File <b>BRA2287</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>3</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>2</b>
Carbon Mast <b>Yes</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>21.400</b>	E <b>7.880</b> MDT1 <b>0.157</b> MW <b>0.320</b>
IG <b>19.475</b>	J <b>5.560</b> MDL1 <b>0.320</b> GO <b>0.332</b>
ISP <b>19.525</b>	SFJ <b>0.170</b> MDT2 <b>0.070</b> BD <b>0.385</b>
BAS <b>2.000</b>	SPL <b>5.840</b> MDL2 <b>0.113</b> MWT <b>384.00</b>
FSD <b>0.044</b>	TPS TL <b>3.380</b> MCG <b>7.190</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>13/03/2017</b>		SG <b>1.0230</b>
FFM <b>1.620</b>	FF <b>1.621</b>	SFFP <b>0.058</b>
FAM <b>1.320</b>	FA <b>1.321</b>	SAFP <b>15.184</b>
W1 <b>154.6</b>	PD1 <b>486.6</b>	WD <b>14.400</b>
W2 <b>154.6</b>	PD2 <b>482.2</b>	GSA <b>1.0</b>
W3 <b>154.6</b>	PD3 <b>483.5</b>	RSA <b>1.0</b>
W4 <b>154.6</b>	PD4 <b>490.4</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>8.442 / 8.665</b>
Maximum beam station from stem		<b>10.500</b>
RM Measured		<b>361.0kg-m</b>
RM Default		<b>379.6kg-m</b>
Limit of positive stability / Stab.Index		<b>125.6° / 130.4</b>
Freeboard at mast at 5.730		<b>1.371</b>



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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.436</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.113</b>	
Twin Screw <b>No</b>	PIPA <b>0.0030</b>	
ST1 <b>0.046</b>	ST3 <b>0.170</b>	ST5 <b>0.255</b>
ST2 <b>0.170</b>	ST4 <b>0.098</b>	EDL <b>0.720</b>

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Valid until <b>31/12/2020</b>	

<b>COMMENTS</b>	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>						
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area Area (r) Formula</b>
	0.22	1.72	2.99	5.09	6.63	100.81 103.16 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>	
	19.11	19.11	19.11	10.50	10.35	166.73 SL · (SFL + 4·SHW) / 6
<b>Asymmetric</b>						
Not Available						

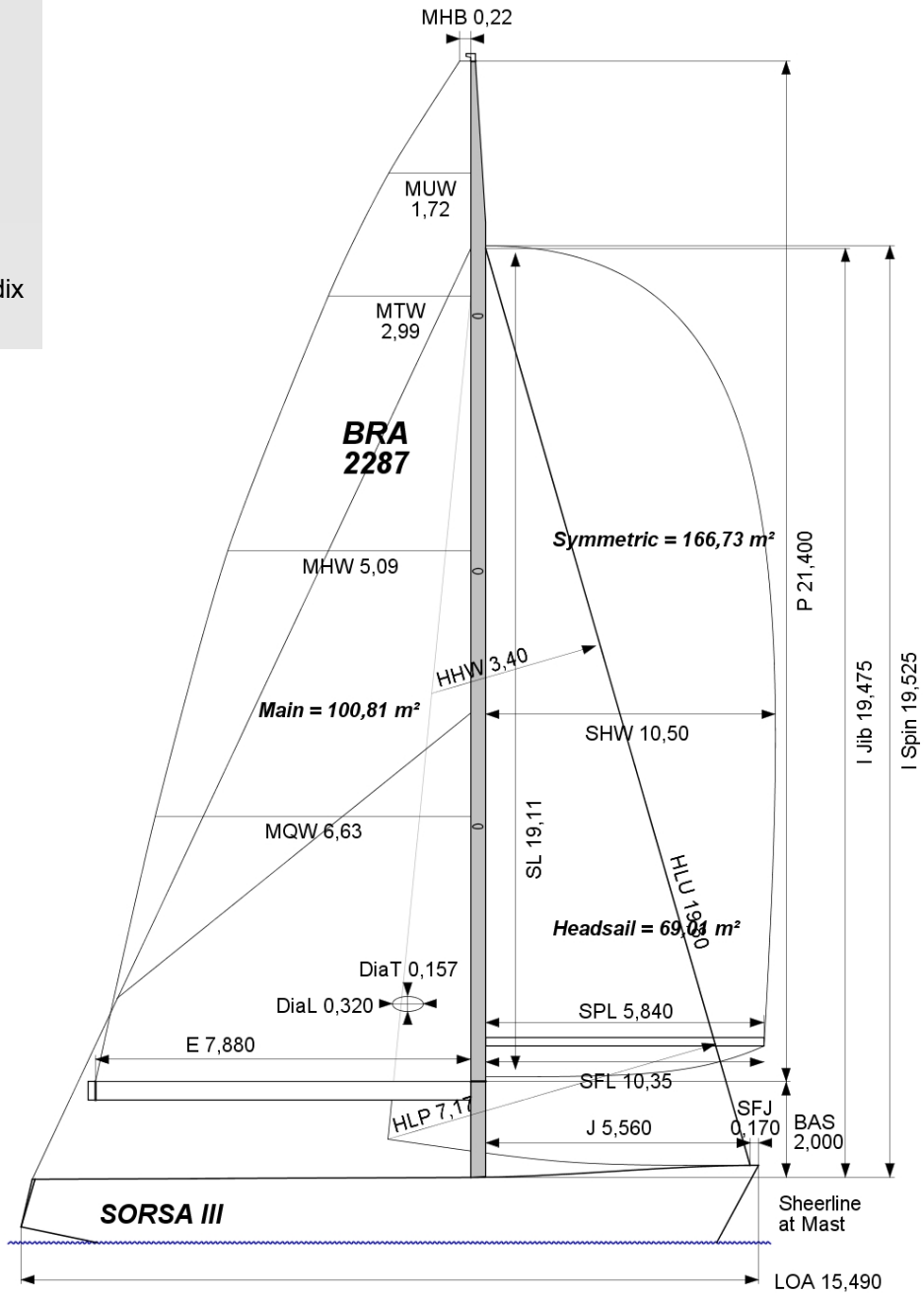
<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HNB)												
<b>HNB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.08	0.85	1.66	3.40	5.22	7.17	19.80	69.01	No	18/10/2018	Carbon	NOVA 2018	
0.11	0.80	1.54	3.19	5.01	6.97	19.50	65.01	No	14/06/2016	Carbon	MEDIDA	
0.11	0.79	1.55	3.20	4.99	6.90	19.42	64.49	No	14/06/2016	Carbon	REMEDIDA	



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (2)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M3	0.22	1.72	2.99	5.09	6.63	100.68		18/10/2018	NORTH	Carbon	NOVA 2018
M2	0.21	1.69	2.96	5.02	6.53	99.56		14/06/2016	OLIMPIC	Carbon	REMEDIDA

**HEADSAILS (3)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.08	0.85	1.66	3.40	5.22	7.17	19.80	129%	69.01	No			18/10/2018	NORTH	Carbon	NOVA 2018
OG1	0.11	0.80	1.54	3.19	5.01	6.97	19.50	125%	65.01	No			14/06/2016	OLIMPIC	Carbon	MEDIDA
OGL1	0.11	0.79	1.55	3.20	4.99	6.90	19.42	124%	64.49	No			14/06/2016	OLIMPIC	Carbon	REMEDIDA

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	19.11	19.11	19.11	10.50	10.35	166.74		27/10/2017	OLIMPIC	Nylon	BRANCO-REMEDI.
S1.5	19.50	19.50	19.50	10.26	10.26	166.73		18/10/2018	NORTH	Nylon	BRANCO
S06	19.13	19.13	19.13	10.36	10.18	164.59		10/10/2008	NORTH	Nylon	
RUNNER1	19.20	19.20	19.20	10.30	9.90	163.52		21/06/2016	NORTH	Nylon	REMEDIAÇÃO

**ASYMMETRIC SPINNAKERS (0)**

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