

<b>BOAT</b> Name <b>DAS BLAU MAX</b> Sail Nr <b>683</b>	<b>GPH</b> <b>579.5</b>	<b>HULL</b> Length Overall <b>9.435m</b> Maximum Beam <b>3.038m</b> Displacement <b>2,111kg</b> Draft <b>2.123m</b> Plan Review IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Hull Construction <b>Cored</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FARR 30</b> Designer <b>FARR</b> Builder <b>CARROLL MARINE</b> Series <b>03/1996</b> Age <b>01/2000</b> Age Allowance <b>0.487%</b> Offset File <b>FARR30.OD.OFF - 24/05/2009 23:54:20</b> Measurement by - <b>01/03/1996</b>		IMSLS <b>8.800m</b> VCGD <b>-0.414m</b> Sink <b>11.51kg/mm</b> RL <b>8.938m</b> VCGM <b>-0.349m</b> WS <b>15.45m<sup>2</sup></b> LSM0 <b>8.546m</b> Displacement/Length ratio <b>3.3822</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>567.5</b>			<b>638.5</b>		
Time on Time	<b>1.0574</b>			<b>1.0572</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>643.7</b>	<b>522.2</b>	<b>459.7</b>	<b>827.7</b>	<b>644.6</b>	<b>562.5</b>
Time on Time	<b>1.0486</b>	<b>1.2927</b>	<b>1.4682</b>	<b>0.8155</b>	<b>1.0471</b>	<b>1.2000</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>952.4</b>	<b>788.3</b>	<b>725.6</b>	<b>706.3</b>	<b>699.4</b>	<b>687.6</b>	<b>687.1</b>
52°	<b>626.9</b>	<b>542.1</b>	<b>517.4</b>	<b>507.8</b>	<b>502.8</b>	<b>498.5</b>	<b>490.0</b>
60°	<b>589.5</b>	<b>527.8</b>	<b>503.5</b>	<b>490.3</b>	<b>482.7</b>	<b>478.6</b>	<b>465.3</b>
75°	<b>550.6</b>	<b>509.6</b>	<b>487.3</b>	<b>463.2</b>	<b>449.4</b>	<b>441.3</b>	<b>429.5</b>
90°	<b>537.7</b>	<b>493.4</b>	<b>462.4</b>	<b>442.8</b>	<b>426.4</b>	<b>408.2</b>	<b>391.5</b>
110°	<b>549.6</b>	<b>498.2</b>	<b>455.8</b>	<b>418.4</b>	<b>389.1</b>	<b>369.7</b>	<b>341.3</b>
120°	<b>568.1</b>	<b>500.9</b>	<b>456.2</b>	<b>424.4</b>	<b>387.9</b>	<b>354.8</b>	<b>312.3</b>
135°	<b>635.5</b>	<b>526.0</b>	<b>479.2</b>	<b>433.0</b>	<b>387.9</b>	<b>347.2</b>	<b>298.2</b>
150°	<b>756.0</b>	<b>603.8</b>	<b>527.7</b>	<b>484.8</b>	<b>445.5</b>	<b>400.3</b>	<b>310.3</b>
Run VMG	<b>872.9</b>	<b>697.2</b>	<b>607.8</b>	<b>551.4</b>	<b>507.9</b>	<b>462.3</b>	<b>358.3</b>

**Certificate**  
Number **US6230**  
ORC Ref **03410000Q2W**  
Issued On **09/09/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**  
Default 550kg  
Maximum **525kg**  
Minimum\* **394kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **623.8 0.9618**  
Non Spin OSN **608.4 0.9862**

<b>Selected Courses</b>							
Windward / Leeward	<b>912.6</b>	<b>742.8</b>	<b>666.7</b>	<b>628.8</b>	<b>603.6</b>	<b>574.9</b>	<b>522.7</b>
Circular Random	<b>779.3</b>	<b>638.6</b>	<b>564.4</b>	<b>520.5</b>	<b>491.2</b>	<b>468.9</b>	<b>433.9</b>
Coastal / Long Distance	<b>908.7</b>	<b>700.5</b>	<b>604.5</b>	<b>548.8</b>	<b>510.8</b>	<b>471.7</b>	<b>408.2</b>
Non Spinnaker	<b>858.3</b>	<b>693.9</b>	<b>605.7</b>	<b>553.7</b>	<b>520.0</b>	<b>496.2</b>	<b>461.8</b>

**Sails Limitations**  
Headsails **5** Spinnakers **4**  
Woven Polyester

<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>42.0°</b>	<b>40.5°</b>	<b>37.9°</b>	<b>37.1°</b>	<b>37.1°</b>	<b>36.4°</b>	<b>37.1°</b>
Beat VMG	<b>3.78</b>	<b>4.57</b>	<b>4.96</b>	<b>5.10</b>	<b>5.15</b>	<b>5.24</b>	<b>5.24</b>
52°	<b>5.74</b>	<b>6.64</b>	<b>6.96</b>	<b>7.09</b>	<b>7.16</b>	<b>7.22</b>	<b>7.35</b>
60°	<b>6.11</b>	<b>6.82</b>	<b>7.15</b>	<b>7.34</b>	<b>7.46</b>	<b>7.52</b>	<b>7.74</b>
75°	<b>6.54</b>	<b>7.06</b>	<b>7.39</b>	<b>7.77</b>	<b>8.01</b>	<b>8.16</b>	<b>8.38</b>
90°	<b>6.70</b>	<b>7.30</b>	<b>7.79</b>	<b>8.13</b>	<b>8.44</b>	<b>8.82</b>	<b>9.20</b>
110°	<b>6.55</b>	<b>7.23</b>	<b>7.90</b>	<b>8.61</b>	<b>9.25</b>	<b>9.74</b>	<b>10.55</b>
120°	<b>6.34</b>	<b>7.19</b>	<b>7.89</b>	<b>8.48</b>	<b>9.28</b>	<b>10.15</b>	<b>11.53</b>
135°	<b>5.66</b>	<b>6.84</b>	<b>7.51</b>	<b>8.31</b>	<b>9.28</b>	<b>10.37</b>	<b>12.07</b>
150°	<b>4.76</b>	<b>5.96</b>	<b>6.82</b>	<b>7.43</b>	<b>8.08</b>	<b>8.99</b>	<b>11.60</b>
Run VMG	<b>4.12</b>	<b>5.16</b>	<b>5.92</b>	<b>6.53</b>	<b>7.09</b>	<b>7.79</b>	<b>10.05</b>
Gybe Angles	<b>143.0°</b>	<b>146.0°</b>	<b>154.0°</b>	<b>162.0°</b>	<b>180.0°</b>	<b>144.5°</b>	<b>144.5°</b>

**Class Division Length**  
CDL = **8.862**

**Storm Sails Areas**  
Heavy Weather Jib **18.30**  
Storm Jib (JL=7.57) **6.78**  
Storm Triesail **9.61**

**Owner**

<b>BOAT</b>		
Name	<b>DAS BLAU MAX</b>	Sail Nr <b>683</b>
File	<b>US6230</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>		
Forestay Tension	<b>Aft</b>	Spreaders <b>2</b>
Inner Stay	<b>None Fitted</b>	Runners/Checkstays <b>0</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>12.360</b>	E <b>4.440</b> MDT1 <b>0.085</b> MW <b>0.143</b>
IG	<b>11.640</b>	J <b>3.320</b> MDL1 <b>0.143</b> GO <b>0.143</b>
ISP	<b>13.620</b>	SFJ <b>0.100</b> MDT2 <b>0.065</b> BD <b>0.134</b>
BAS	<b>1.255</b>	SPL <b>4.140</b> MDL2 <b>0.105</b> MWT <b>64.30</b>
FSD	<b>0.027</b>	TPS <b>5.215</b> TL <b>2.000</b> MCG <b>4.755</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>02/04/2016</b>		SG <b>1.0162</b>
FFM	<b>1.046</b>	FF <b>1.048</b> SFFP <b>0.222</b>
FAM	<b>0.783</b>	FA <b>0.784</b> SAFF <b>8.685</b>
W1	<b>10.0</b>	PD1 <b>171.3</b> WD <b>10.705</b>
W2	<b>20.0</b>	PD2 <b>343.5</b> GSA <b>1.0</b>
W3	<b>30.0</b>	PD3 <b>513.8</b> RSA <b>1.0</b>
W4	<b>40.0</b>	PD4 <b>689.7</b> PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.250 / 5.440</b>
Maximum beam station from stem		<b>5.825</b>
RM Measured		<b>49.2kg-m</b>
RM Default		<b>51.5kg-m</b>
Limit of positive stability / Stab.Index		<b>130.9° / 124.6</b>
Freeboard at mast at 3.420		<b>0.953</b>



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

<b>PROPELLER</b>		
Installation	<b>Strut</b>	PRD <b>0.352</b>
Type	<b>Folding 2 blades</b>	PBW <b>0.090</b>
Twin Screw	<b>No</b>	PIPA <b>0.0032</b>
ST1	<b>0.042</b>	ST3 <b>0.178</b> ST5 <b>0.248</b>
ST2	<b>0.178</b>	ST4 <b>0.114</b> EDL <b>1.278</b>

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<b>COMMENTS</b>		

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

<b>CENTERBOARD</b>		
N/A		



<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.17	1.10	1.95	3.16	3.94	35.15	36.23	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	87.24		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	100.60		AS · (SFL + 4·SHW) / 6	

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.09	0.55	0.97	1.80	2.59	3.41	11.34	20.11	Y	No	12/08/2020	Unknow	3Di bLACK
0.09	0.53	0.96	1.79	2.58	3.42	11.33	20.01	Y	No	12/08/2020	Unknow	3Di

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight Description		

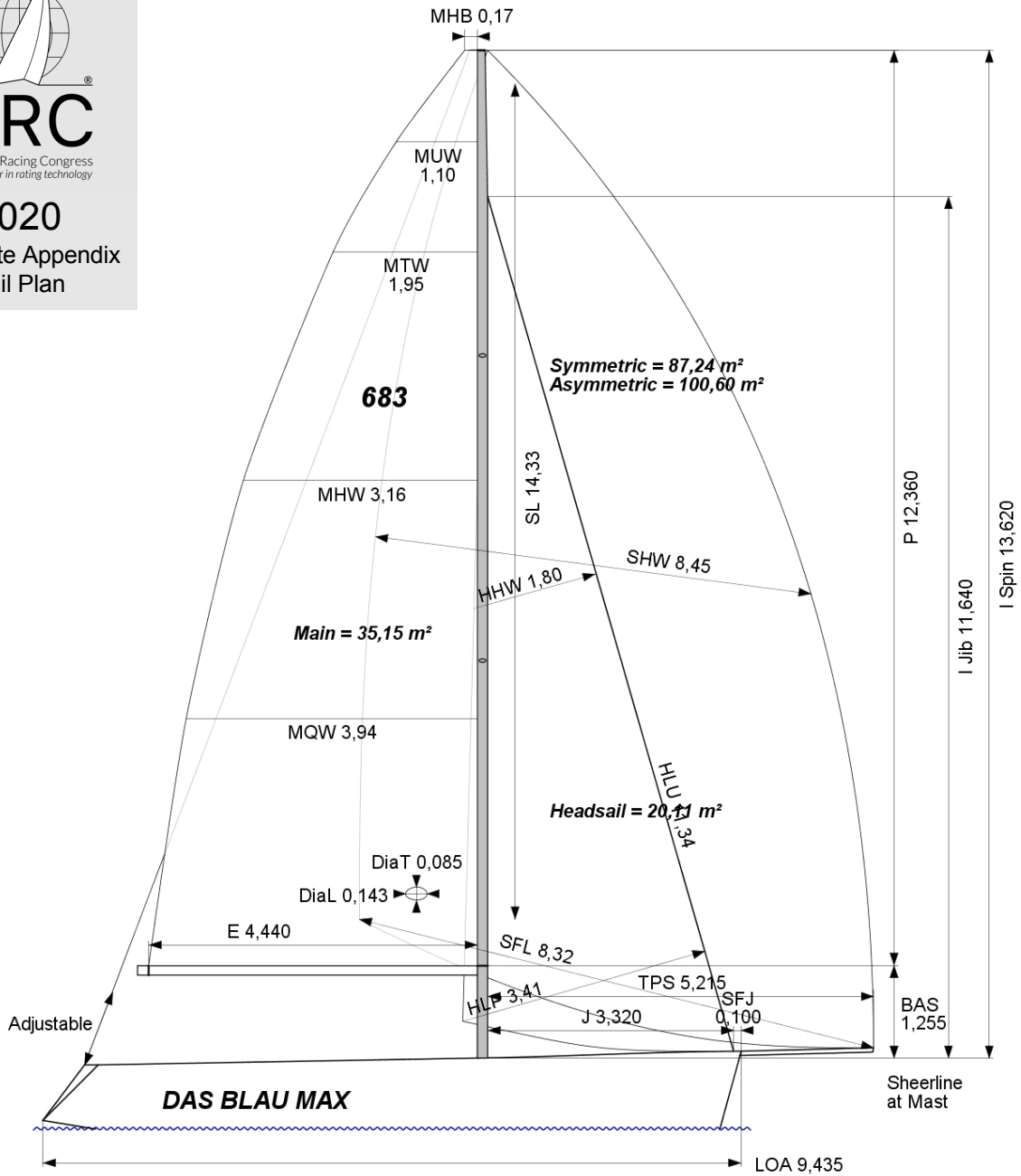
<b>MEASUREMENT INVENTORY</b>				
Id	Item	Weight	Distance	VCG Description



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
OUS131967-	0.17	1.10	1.95	3.16	3.94	35.15		14/01/2019	NORTH		OD SAIL

**HEADSAILS (2)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
LT JIB	0.09	0.55	0.97	1.80	2.59	3.41	11.34	103%	20.11	Y	No		12/08/2020	NSRI	Unknow	3Di bLACK
MED JIB	0.09	0.53	0.96	1.79	2.58	3.42	11.33	103%	20.01	Y	No		12/08/2020	NSRI	Unknow	3DI

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
F30	13.87	13.87	13.87	7.62	7.26	87.25		21/01/2015	NORTH		0

**ASYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A2	15.50	13.16	14.33	8.45	8.32	100.60	asym		03/05/2018	NORTH	Unknown	OUS128363-002
A1.5	15.27	13.47	14.37	8.10	8.63	98.27	asym		01/05/2018	NORTH	Unknown	OUS128363-001
OUS128363-	12.59	11.51	12.05	4.96	6.60	53.11	asy76		05/10/2018	NORTH	Unknown	0