

<b>BOAT</b> Name <b>MELGES 24</b> Sail Nr <b>MEL24-</b>	<b>GPH</b> <b>623.5</b>	<b>HULL</b> Length Overall <b>7.509m</b> Maximum Beam <b>2.490m</b> Displacement <b>821kg</b> Draft <b>1.522m</b> IMS Reg. Division <b>Sportboat</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>Yes</b> Crew Arm Extension <b>0.50</b>
<b>GENERAL</b> Class <b>MELGES 24 OD</b> Designer <b>REICHEL/PUGH</b> Builder <b>ROWEN</b> Series <b>12/1992</b> Age <b>11/1999</b> Age Allowance <b>0.487%</b> Offset File <b>melg24.od - 15/08/2019 11:16:09</b> Measurement by <b>ONE DESIGN - 19/03/1996</b>		IMSL <b>7.249m</b> VCGD <b>0.050m</b> Sink <b>8.71kg/mm</b> RL <b>7.823m</b> VCGM <b>0.030m</b> WS <b>10.47m<sup>2</sup></b> LSM0 <b>6.753m</b> Displacement/Length ratio <b>2.6660</b>



**2019 (Test)**  
ORC International  
One Design Certificate

<b>Rating Office</b>

<b>SCORING OPTIONS</b>						
Time on Distance Time on Time	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	<b>605.1</b>			<b>690.0</b>		
	<b>0.9915</b>			<b>0.9783</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>714.4</b>	<b>556.3</b>	<b>472.6</b>	<b>917.6</b>	<b>696.6</b>	<b>591.5</b>
Time on Time	<b>0.9449</b>	<b>1.2134</b>	<b>1.4282</b>	<b>0.7356</b>	<b>0.9690</b>	<b>1.1412</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1070.1</b>	<b>877.0</b>	<b>783.9</b>	<b>755.0</b>	<b>747.0</b>	<b>745.0</b>	<b>738.8</b>
52°	<b>699.2</b>	<b>595.4</b>	<b>555.4</b>	<b>535.3</b>	<b>526.2</b>	<b>521.8</b>	<b>507.3</b>
60°	<b>659.5</b>	<b>576.1</b>	<b>537.3</b>	<b>507.7</b>	<b>496.0</b>	<b>490.0</b>	<b>472.4</b>
75°	<b>627.3</b>	<b>562.8</b>	<b>518.8</b>	<b>473.0</b>	<b>450.6</b>	<b>439.6</b>	<b>423.6</b>
90°	<b>622.3</b>	<b>546.6</b>	<b>510.3</b>	<b>468.7</b>	<b>420.4</b>	<b>395.3</b>	<b>374.8</b>
110°	<b>612.2</b>	<b>534.6</b>	<b>469.9</b>	<b>434.2</b>	<b>405.6</b>	<b>380.8</b>	<b>323.1</b>
120°	<b>627.3</b>	<b>544.1</b>	<b>478.7</b>	<b>416.6</b>	<b>382.5</b>	<b>359.4</b>	<b>308.8</b>
135°	<b>703.7</b>	<b>579.8</b>	<b>517.9</b>	<b>456.4</b>	<b>396.5</b>	<b>344.3</b>	<b>270.0</b>
150°	<b>833.1</b>	<b>659.2</b>	<b>575.3</b>	<b>522.0</b>	<b>465.8</b>	<b>412.1</b>	<b>292.9</b>
Run VMG	<b>962.0</b>	<b>761.1</b>	<b>664.8</b>	<b>602.7</b>	<b>537.9</b>	<b>475.8</b>	<b>338.2</b>

<b>Certificate</b> Number <b>MEL24</b> ORC Ref <b>N/A</b> Issued On <b>15/08/2019</b> VPP Ver. <b>2019 1.01</b> <b>Invalid for Racing</b>
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<b>Crew Weight</b> Default <b>393kg</b> Maximum <b>375kg</b> Minimum* <b>281kg</b> <i>*when applied by the NoR and SI</i> Non Manual Pwr <b>No</b>
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<b>Special Scoring</b> ToD ToT Double H.GPH <b>653.2 0.9186</b> Double H.OSN <b>640.6 0.9366</b> Non Spin GPH <b>670.2 0.8953</b> Non Spin OSN <b>648.7 0.9249</b>
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<b>Selected Courses</b>							
Windward / Leeward	<b>1016.0</b>	<b>819.1</b>	<b>724.3</b>	<b>678.9</b>	<b>642.4</b>	<b>610.4</b>	<b>538.5</b>
Circular Random	<b>858.9</b>	<b>695.4</b>	<b>606.3</b>	<b>551.6</b>	<b>513.7</b>	<b>484.0</b>	<b>435.2</b>
Coastal / Long Distance	<b>1010.6</b>	<b>771.6</b>	<b>654.6</b>	<b>580.7</b>	<b>530.2</b>	<b>487.6</b>	<b>407.3</b>
Non Spinnaker	<b>936.5</b>	<b>751.4</b>	<b>650.1</b>	<b>589.0</b>	<b>548.5</b>	<b>518.8</b>	<b>473.3</b>

<b>Sails Limitations</b> Headsails <b>5</b> Spinnakers <b>3</b>
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<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>43.1°</b>	<b>41.6°</b>	<b>39.0°</b>	<b>37.3°</b>	<b>37.1°</b>	<b>37.1°</b>	<b>37.7°</b>
Beat VMG	<b>3.36</b>	<b>4.10</b>	<b>4.59</b>	<b>4.77</b>	<b>4.82</b>	<b>4.83</b>	<b>4.87</b>
52°	<b>5.15</b>	<b>6.05</b>	<b>6.48</b>	<b>6.72</b>	<b>6.84</b>	<b>6.90</b>	<b>7.10</b>
60°	<b>5.46</b>	<b>6.25</b>	<b>6.70</b>	<b>7.09</b>	<b>7.26</b>	<b>7.35</b>	<b>7.62</b>
75°	<b>5.74</b>	<b>6.40</b>	<b>6.94</b>	<b>7.61</b>	<b>7.99</b>	<b>8.19</b>	<b>8.50</b>
90°	<b>5.79</b>	<b>6.59</b>	<b>7.05</b>	<b>7.68</b>	<b>8.56</b>	<b>9.11</b>	<b>9.60</b>
110°	<b>5.88</b>	<b>6.73</b>	<b>7.66</b>	<b>8.29</b>	<b>8.88</b>	<b>9.45</b>	<b>11.14</b>
120°	<b>5.74</b>	<b>6.62</b>	<b>7.52</b>	<b>8.64</b>	<b>9.41</b>	<b>10.02</b>	<b>11.66</b>
135°	<b>5.12</b>	<b>6.21</b>	<b>6.95</b>	<b>7.89</b>	<b>9.08</b>	<b>10.46</b>	<b>13.33</b>
150°	<b>4.32</b>	<b>5.46</b>	<b>6.26</b>	<b>6.90</b>	<b>7.73</b>	<b>8.74</b>	<b>12.29</b>
Run VMG	<b>3.74</b>	<b>4.73</b>	<b>5.42</b>	<b>5.97</b>	<b>6.69</b>	<b>7.57</b>	<b>10.64</b>
Gybe Angles	<b>144.0°</b>	<b>148.0°</b>	<b>151.5°</b>	<b>148.5°</b>	<b>145.0°</b>	<b>144.5°</b>	<b>140.9°</b>

<b>Class Division Length</b> CDL = <b>7.537</b>
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<b>Storm Sails Areas</b> Heavy Weather Jib <b>10.04</b> Storm Jib (JL=5.61) <b>3.72</b> Storm Trysail <b>5.87</b>
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<b>Owner</b>
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

<b>BOAT</b>	
Name <b>MELGES 24</b>	Sail Nr <b>MEL24-</b>
File <b>melg24</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>
Inner Stay <b>None Fitted</b>	Runners <b>0</b>
Carbon Mast <b>Yes</b>	Jumper Struts <b>None</b>
Taper Hollows <b>No</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>
Articulated Bowsprit <b>No</b>	

P <b>8.818</b>	E <b>3.800</b>	MDT1 <b>0.076</b>	MW <b>0.114</b>
IG <b>8.620</b>	J <b>2.506</b>	MDL1 <b>0.120</b>	GO <b>0.114</b>
ISP <b>9.777</b>	SFJ <b>0.200</b>	MDT2 <b>0.062</b>	BD <b>0.103</b>
BAS <b>1.000</b>	SPL	MDL2 <b>0.075</b>	MWT <b>28.00</b>
FSP <b>0.000</b>	TPS <b>4.106</b>	TL <b>1.578</b>	MCG <b>3.150</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Enter VCG directly</b>			
Flotation date <b>27/01/2016</b>		SG <b>1.0250</b>	
VCGDe <b>0.050</b>			
FFM <b>0.876</b>	FF <b>0.876</b>	SFFP <b>0.130</b>	
FAM <b>0.587</b>	FA <b>0.587</b>	SAFP <b>7.370</b>	
LCF from stem on CL / on sheer		<b>4.188 / 4.325</b>	
Maximum beam station from stem		<b>4.470</b>	
RM Measured		<b>25.3kg·m</b>	
RM Default		<b>27.0kg·m</b>	
Limit of positive stability / Stab.Index		<b>103.2° / 94.7</b>	
Freeboard at mast at 2.706		<b>0.799</b>	



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**2019**  
IMS Measurement  
Certificate

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

<b>PROPELLER</b>	
Type <b>No Propeller</b>	

<b>Certificate</b>	
Number <b>MEL24</b>	
ORC Ref <b>N/A</b>	
Issued On <b>15/08/2019</b>	
VPP Ver. <b>2019 1.01</b>	
<b>Invalid for Racing</b>	

<b>COMMENTS</b>	
LIFELINE TENSION ACC CLASSRULE	

<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	
	0.180	0.93	1.68	2.70	3.33	21.38	22.33	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>									
Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	11.59	11.08	11.34	5.86	6.30	56.18	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)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.05	0.40	0.76	1.42	2.09	2.78	8.56	12.14					CLASS RULES

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	MIN 12kg	OUTBOARD	
Id	Item	Weight Description		

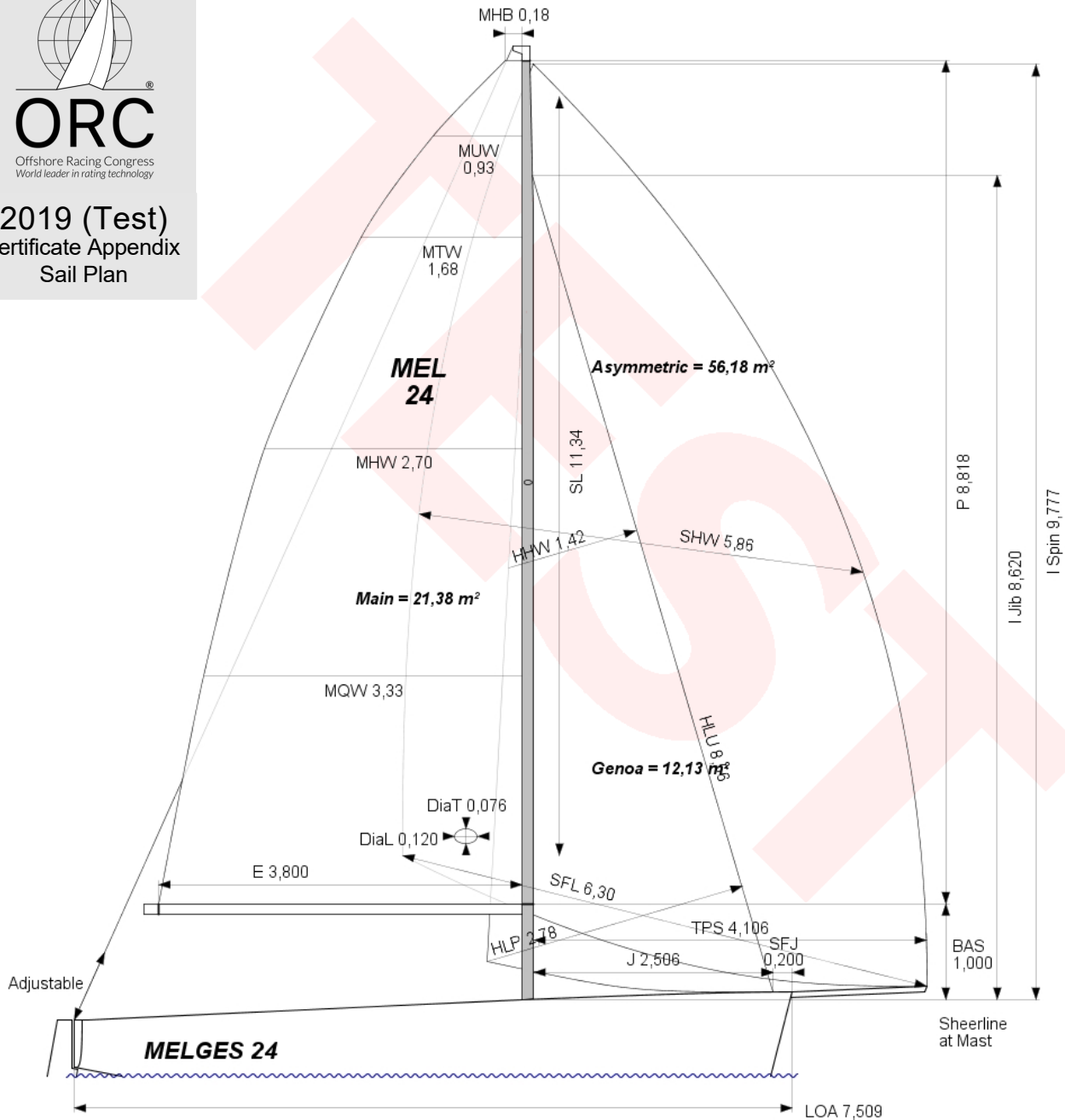
<b>MEASUREMENT INVENTORY</b>				
Id	Item	Weight	Distance	VCG Description



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**2019 (Test)  
Certificate Appendix  
Sail Plan**



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M	0.18	0.93	1.68	2.70	3.33	21.39	OD				CLASS RULES &

**HEADSAILS (1)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.05	0.40	0.76	1.42	2.09	2.78	8.56	111%	12.14			OD				CLASS RULES

**SYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	11.59	11.08	11.34	5.86	6.30	56.19	asym	OD				CLASS RULES & MEAS