

<b>BOAT</b> Name <b>I'm Free</b> Sail Nr <b>HUN-794</b>	<b>GPH</b> <b>623.9</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 - 01/02/2018 14:20:40</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>7.864m</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>



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**2018**  
ORC International  
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>605.3</b>			<b>690.1</b>		
Time on Time	<b>0.9912</b>			<b>0.9781</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>716.8</b>	<b>556.2</b>	<b>471.5</b>	<b>921.3</b>	<b>696.6</b>	<b>591.2</b>
Time on Time	<b>0.9417</b>	<b>1.2136</b>	<b>1.4315</b>	<b>0.7327</b>	<b>0.9690</b>	<b>1.1417</b>

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1071.4</b>	<b>877.0</b>	<b>782.0</b>	<b>753.0</b>	<b>744.6</b>	<b>742.0</b>	<b>735.6</b>
52°	<b>700.1</b>	<b>595.2</b>	<b>554.8</b>	<b>534.5</b>	<b>525.1</b>	<b>520.5</b>	<b>505.6</b>
60°	<b>660.8</b>	<b>578.2</b>	<b>536.8</b>	<b>507.0</b>	<b>495.2</b>	<b>488.9</b>	<b>470.9</b>
75°	<b>633.0</b>	<b>565.9</b>	<b>519.8</b>	<b>472.5</b>	<b>449.9</b>	<b>438.9</b>	<b>422.3</b>
90°	<b>624.5</b>	<b>546.4</b>	<b>510.7</b>	<b>469.2</b>	<b>420.0</b>	<b>394.9</b>	<b>374.3</b>
110°	<b>614.5</b>	<b>535.4</b>	<b>469.8</b>	<b>434.1</b>	<b>404.1</b>	<b>378.5</b>	<b>322.8</b>
120°	<b>629.5</b>	<b>545.2</b>	<b>478.9</b>	<b>416.5</b>	<b>382.1</b>	<b>356.2</b>	<b>300.8</b>
135°	<b>707.3</b>	<b>580.5</b>	<b>518.0</b>	<b>456.9</b>	<b>397.2</b>	<b>345.7</b>	<b>259.0</b>
150°	<b>839.1</b>	<b>664.7</b>	<b>577.8</b>	<b>522.9</b>	<b>466.0</b>	<b>412.3</b>	<b>298.3</b>
Run VMG	<b>968.9</b>	<b>767.5</b>	<b>667.4</b>	<b>603.8</b>	<b>538.1</b>	<b>476.1</b>	<b>344.4</b>

**Certificate**

Number **010/18**  
ORC Ref **HUN10014413**  
Issued On **27/05/2018**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

Selected Courses							
Windward / Leeward	<b>1020.1</b>	<b>822.3</b>	<b>724.7</b>	<b>678.4</b>	<b>641.3</b>	<b>609.0</b>	<b>540.0</b>
Circular Random	<b>861.2</b>	<b>696.6</b>	<b>606.7</b>	<b>551.3</b>	<b>512.9</b>	<b>483.0</b>	<b>434.0</b>
Coastal / Long Distance	<b>1015.0</b>	<b>774.5</b>	<b>654.9</b>	<b>580.3</b>	<b>529.3</b>	<b>486.1</b>	<b>405.6</b>
Non Spinnaker	<b>941.4</b>	<b>754.3</b>	<b>651.8</b>	<b>589.7</b>	<b>548.6</b>	<b>518.5</b>	<b>472.5</b>

**Crew Weight**

Default 393kg  
Maximum **375kg**  
Minimum\* **281kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.7°</b>	<b>41.5°</b>	<b>38.8°</b>	<b>37.2°</b>	<b>36.9°</b>	<b>36.9°</b>	<b>37.3°</b>
Beat VMG	<b>3.36</b>	<b>4.10</b>	<b>4.60</b>	<b>4.78</b>	<b>4.83</b>	<b>4.85</b>	<b>4.89</b>
52°	<b>5.14</b>	<b>6.05</b>	<b>6.49</b>	<b>6.74</b>	<b>6.86</b>	<b>6.92</b>	<b>7.12</b>
60°	<b>5.45</b>	<b>6.23</b>	<b>6.71</b>	<b>7.10</b>	<b>7.27</b>	<b>7.36</b>	<b>7.64</b>
75°	<b>5.69</b>	<b>6.36</b>	<b>6.93</b>	<b>7.62</b>	<b>8.00</b>	<b>8.20</b>	<b>8.52</b>
90°	<b>5.76</b>	<b>6.59</b>	<b>7.05</b>	<b>7.67</b>	<b>8.57</b>	<b>9.12</b>	<b>9.62</b>
110°	<b>5.86</b>	<b>6.72</b>	<b>7.66</b>	<b>8.29</b>	<b>8.91</b>	<b>9.51</b>	<b>11.15</b>
120°	<b>5.72</b>	<b>6.60</b>	<b>7.52</b>	<b>8.64</b>	<b>9.42</b>	<b>10.11</b>	<b>11.97</b>
135°	<b>5.09</b>	<b>6.20</b>	<b>6.95</b>	<b>7.88</b>	<b>9.06</b>	<b>10.41</b>	<b>13.90</b>
150°	<b>4.29</b>	<b>5.42</b>	<b>6.23</b>	<b>6.88</b>	<b>7.72</b>	<b>8.73</b>	<b>12.07</b>
Run VMG	<b>3.72</b>	<b>4.69</b>	<b>5.39</b>	<b>5.96</b>	<b>6.69</b>	<b>7.56</b>	<b>10.45</b>
Gybe Angles	<b>143.5°</b>	<b>147.3°</b>	<b>150.5°</b>	<b>148.3°</b>	<b>144.7°</b>	<b>144.5°</b>	<b>139.9°</b>

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>647.6</b>	<b>0.9265</b>
Double H.OSN	<b>634.7</b>	<b>0.9453</b>
Non Spin GPH	<b>672.0</b>	<b>0.8929</b>
Non Spin OSN	<b>650.7</b>	<b>0.9220</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>3</b>

**Class Division Length**

CDL = **7.558**

**Storm Sails Areas**

Heavy Weather Jib **10.03**  
Storm Jib (JL=5.60) **3.72**  
Storm Trysail **5.86**

**Owner**

<b>BOAT</b>	
Name I'm Free File HUN794	Sail Nr HUN-794 Data in meters/kilograms

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

<b>RIG</b>				
Forestay Tension Aft	Spreaders 1		Runners 0	
Inner Stay None Fitted	Jumper Struts None		Jib Furler No	
Carbon Mast Yes	Main Furler No		Without Backstay No	
Taper Hollows No	Without Backstay No			
Fiber Rigging No				
Lenticular Rigging No				
Articulated Bowsprit No				
P 8.818	E 3.800	MDT1 0.076	MW 0.114	
IG 8.620	J 2.506	MDL1 0.120	GO 0.114	
ISP 9.777	SFJ 0.200	MDT2 0.062	BD 0.103	
BAS 1.000	SPL	MDL2 0.075	MWT 28.00	
FSP 0.000	TPS 4.050	TL 1.578	MCG 3.150	



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<b>Certificate</b>
Number 010/18
ORC Ref HUN10014413
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Valid until 31/12/2018

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

<b>PROPELLER</b>
Type No Propeller

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

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



**Invalid for Racing**

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<b>CENTERBOARD</b>
N/A

<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.175	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)	
Symmetric Not Available									
<b>Asymmetric</b>	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)												
<b>HHB</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>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.05	0.40	0.76	1.42	2.09	2.78	8.56	12.13					CLASS RULES

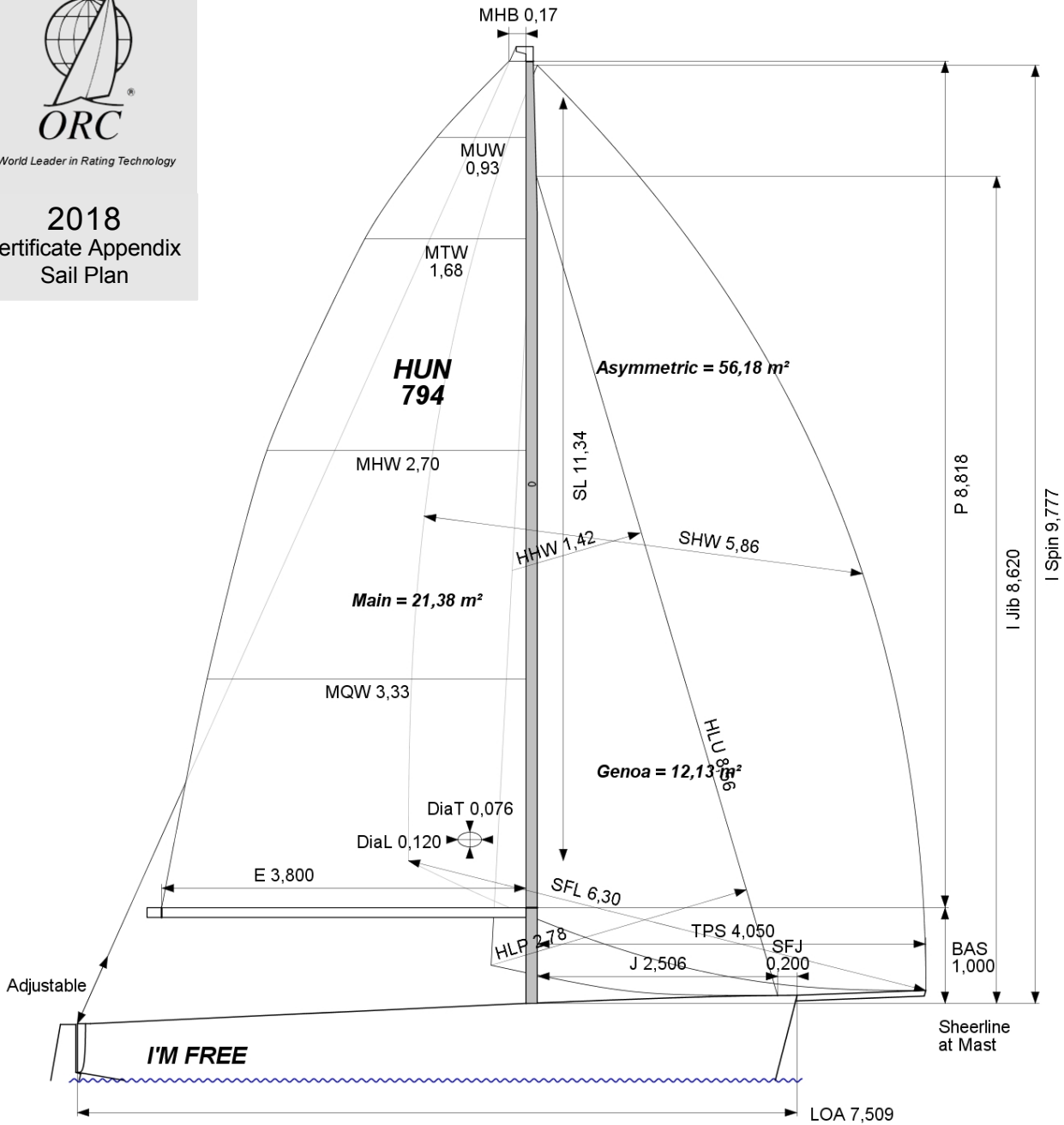
<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	MIN 12kg	OUTBOARD	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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



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2018  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M	0.175	0.93	1.68	2.70	3.33	21.38	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%	12.13			OD				CLASS RULES
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
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	56.18	asym	OD				CLASS RULES & MEAS				