

<b>BOAT</b> Name <b>MAAT KA RA</b> Sail Nr <b>ITA-8284</b>	<b>GPH</b> <b>781.2</b>	<b>HULL</b> Length Overall <b>6.001m</b> Maximum Beam <b>2.430m</b> Displacement <b>832kg</b> Draft <b>1.108m</b> IMS Reg. Division <b>Sportboat</b> Dynamic Allowance <b>0.017%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>ILLIMIT</b> Designer <b>ABRAMI</b> Builder <b>CADEI</b> Series <b>05/1977</b> Age <b>05/1977</b> Age Allowance <b>0.487%</b> Offset File <b>ILLISCN.OFF - 07/05/2018 09:56:42</b> Measurement by <b>PINDOZZI - 07/04/2018</b>		IMSL <b>5.316m</b> VCGD <b>0.136m</b> Sink <b>6.12kg/mm</b> RL <b>5.044m</b> VCGM <b>0.186m</b> WS <b>8.03m<sup>2</sup></b> LSM0 <b>5.411m</b> Displacement/Length ratio <b>5.2516</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>761.2</b>			<b>847.7</b>		
Time on Time	<b>0.7882</b>			<b>0.7963</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>864.3</b>	<b>701.2</b>	<b>644.7</b>	<b>1093.6</b>	<b>846.7</b>	<b>781.6</b>
Time on Time	<b>0.7810</b>	<b>0.9627</b>	<b>1.0470</b>	<b>0.6172</b>	<b>0.7972</b>	<b>0.8636</b>

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<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1284.1</b>	<b>1092.7</b>	<b>988.3</b>	<b>940.2</b>	<b>938.0</b>	<b>947.6</b>	<b>1006.1</b>
52°	<b>852.5</b>	<b>734.9</b>	<b>689.2</b>	<b>666.9</b>	<b>659.6</b>	<b>658.7</b>	<b>669.0</b>
60°	<b>812.4</b>	<b>711.7</b>	<b>674.7</b>	<b>650.6</b>	<b>637.2</b>	<b>633.4</b>	<b>639.2</b>
75°	<b>783.5</b>	<b>697.3</b>	<b>662.8</b>	<b>634.5</b>	<b>608.0</b>	<b>592.6</b>	<b>587.3</b>
90°	<b>770.6</b>	<b>675.0</b>	<b>634.1</b>	<b>612.9</b>	<b>597.7</b>	<b>574.3</b>	<b>546.4</b>
110°	<b>750.9</b>	<b>666.0</b>	<b>619.0</b>	<b>576.9</b>	<b>550.2</b>	<b>535.3</b>	<b>512.7</b>
120°	<b>766.9</b>	<b>672.7</b>	<b>625.9</b>	<b>581.5</b>	<b>544.0</b>	<b>516.1</b>	<b>485.2</b>
135°	<b>830.4</b>	<b>701.9</b>	<b>650.5</b>	<b>607.2</b>	<b>567.3</b>	<b>530.7</b>	<b>460.0</b>
150°	<b>956.7</b>	<b>775.1</b>	<b>685.6</b>	<b>643.2</b>	<b>603.3</b>	<b>567.1</b>	<b>500.7</b>
Run VMG	<b>1104.7</b>	<b>893.1</b>	<b>772.1</b>	<b>692.4</b>	<b>649.6</b>	<b>611.7</b>	<b>544.5</b>

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Number **82841**  
ORC Ref **ITA00027219**  
Issued On **09/05/2018**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

<b>Selected Courses</b>							
Windward / Leeward	<b>1194.4</b>	<b>992.9</b>	<b>880.2</b>	<b>816.3</b>	<b>793.8</b>	<b>779.7</b>	<b>775.3</b>
Circular Random	<b>1044.6</b>	<b>857.2</b>	<b>759.7</b>	<b>705.2</b>	<b>673.3</b>	<b>654.1</b>	<b>635.0</b>
Coastal / Long Distance	<b>1185.4</b>	<b>936.1</b>	<b>804.4</b>	<b>728.5</b>	<b>687.6</b>	<b>651.8</b>	<b>595.5</b>
Non Spinnaker	<b>1119.1</b>	<b>910.2</b>	<b>800.0</b>	<b>737.6</b>	<b>701.0</b>	<b>679.0</b>	<b>657.2</b>

**Crew Weight**

Default **287kg**  
Maximum **295kg**  
Minimum\* **210kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

<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>42.1°</b>	<b>41.9°</b>	<b>40.7°</b>	<b>39.7°</b>	<b>40.0°</b>	<b>40.9°</b>	<b>44.4°</b>
Beat VMG	<b>2.80</b>	<b>3.29</b>	<b>3.64</b>	<b>3.83</b>	<b>3.84</b>	<b>3.80</b>	<b>3.58</b>
52°	<b>4.22</b>	<b>4.90</b>	<b>5.22</b>	<b>5.40</b>	<b>5.46</b>	<b>5.47</b>	<b>5.38</b>
60°	<b>4.43</b>	<b>5.06</b>	<b>5.34</b>	<b>5.53</b>	<b>5.65</b>	<b>5.68</b>	<b>5.63</b>
75°	<b>4.59</b>	<b>5.16</b>	<b>5.43</b>	<b>5.67</b>	<b>5.92</b>	<b>6.07</b>	<b>6.13</b>
90°	<b>4.67</b>	<b>5.33</b>	<b>5.68</b>	<b>5.87</b>	<b>6.02</b>	<b>6.27</b>	<b>6.59</b>
110°	<b>4.79</b>	<b>5.41</b>	<b>5.82</b>	<b>6.24</b>	<b>6.54</b>	<b>6.73</b>	<b>7.02</b>
120°	<b>4.69</b>	<b>5.35</b>	<b>5.75</b>	<b>6.19</b>	<b>6.62</b>	<b>6.98</b>	<b>7.42</b>
135°	<b>4.34</b>	<b>5.13</b>	<b>5.53</b>	<b>5.93</b>	<b>6.35</b>	<b>6.78</b>	<b>7.83</b>
150°	<b>3.76</b>	<b>4.64</b>	<b>5.25</b>	<b>5.60</b>	<b>5.97</b>	<b>6.35</b>	<b>7.19</b>
Run VMG	<b>3.26</b>	<b>4.03</b>	<b>4.66</b>	<b>5.20</b>	<b>5.54</b>	<b>5.89</b>	<b>6.61</b>
Gybe Angles	<b>149.4°</b>	<b>151.8°</b>	<b>160.1°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>789.1</b>	<b>0.7603</b>
Double H.OSN	<b>773.4</b>	<b>0.7758</b>
Non Spin GPH	<b>823.9</b>	<b>0.7282</b>
Non Spin OSN	<b>798.7</b>	<b>0.7512</b>

**Sails Limitations**

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

**Class Division Length**

CDL = **5.180**

**Storm Sails Areas**


Heavy Weather Jib	<b>7.38</b>
Storm Jib (JL=4.81)	<b>2.73</b>
Storm Trysail	<b>3.16</b>

**Owner**

<b>BOAT</b>	
Name <b>MAAT KARA</b>	Sail Nr <b>ITA-8284</b>
File <b>I8284</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>30/04/2018</b>	SG <b>1.0000</b>		
FFM <b>0.808</b>	FF <b>0.812</b>	SFFP <b>0.386</b>	
FAM <b>0.753</b>	FA <b>0.756</b>	SAFP <b>5.906</b>	
W1 <b>12.3</b>	PD1 <b>558.1</b>	WD <b>7.720</b>	
W2 <b>12.3</b>	PD2 <b>567.2</b>	GSA <b>1.0</b>	
W3 <b>12.3</b>	PD3 <b>585.0</b>	RSA <b>1.0</b>	
W4 <b>12.3</b>	PD4 <b>579.7</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>3.323 / 3.476</b>	
Maximum beam station from stem		<b>3.991</b>	
RM Measured		<b>13.1kg·m</b>	
RM Default		<b>16.4kg·m</b>	
Limit of positive stability / Stab.Index		<b>100.6° / 91.7</b>	
Freeboard at mast at 2.665		<b>0.789</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>		
Inner Stay <b>None Fitted</b>	Runners <b>1</b>		
Carbon Mast <b>No</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>7.576</b>	E <b>2.386</b>	MDT1 <b>0.072</b>	MW <b>0.111</b>
IG <b>7.394</b>	J <b>2.270</b>	MDL1 <b>0.111</b>	GO <b>0.111</b>
ISP <b>8.568</b>	SFJ <b>0.395</b>	MDT2 <b>0.048</b>	BD <b>0.078</b>
BAS <b>0.959</b>	SPL <b>3.324</b>	MDL2 <b>0.071</b>	MWT <b>21.15</b>
FSP <b>0.054</b>	TPS	TL <b>1.143</b>	MCG <b>3.329</b>




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**IMS Measurement Certificate**

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

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

<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	
	0.250	0.63	1.03	1.61	2.07	11.41	11.65	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	34.36		SL · (SFL + 4·SHW) / 6	
	8.46	8.46	8.46	4.90	4.77				
Asymmetric	Not Available								

<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>
0.10	0.49	0.93	1.83	2.74	3.66	7.10	13.07			07/04/2018	Unknow	
					2.42	7.19	8.86	Y		07/04/2018	Dacron	

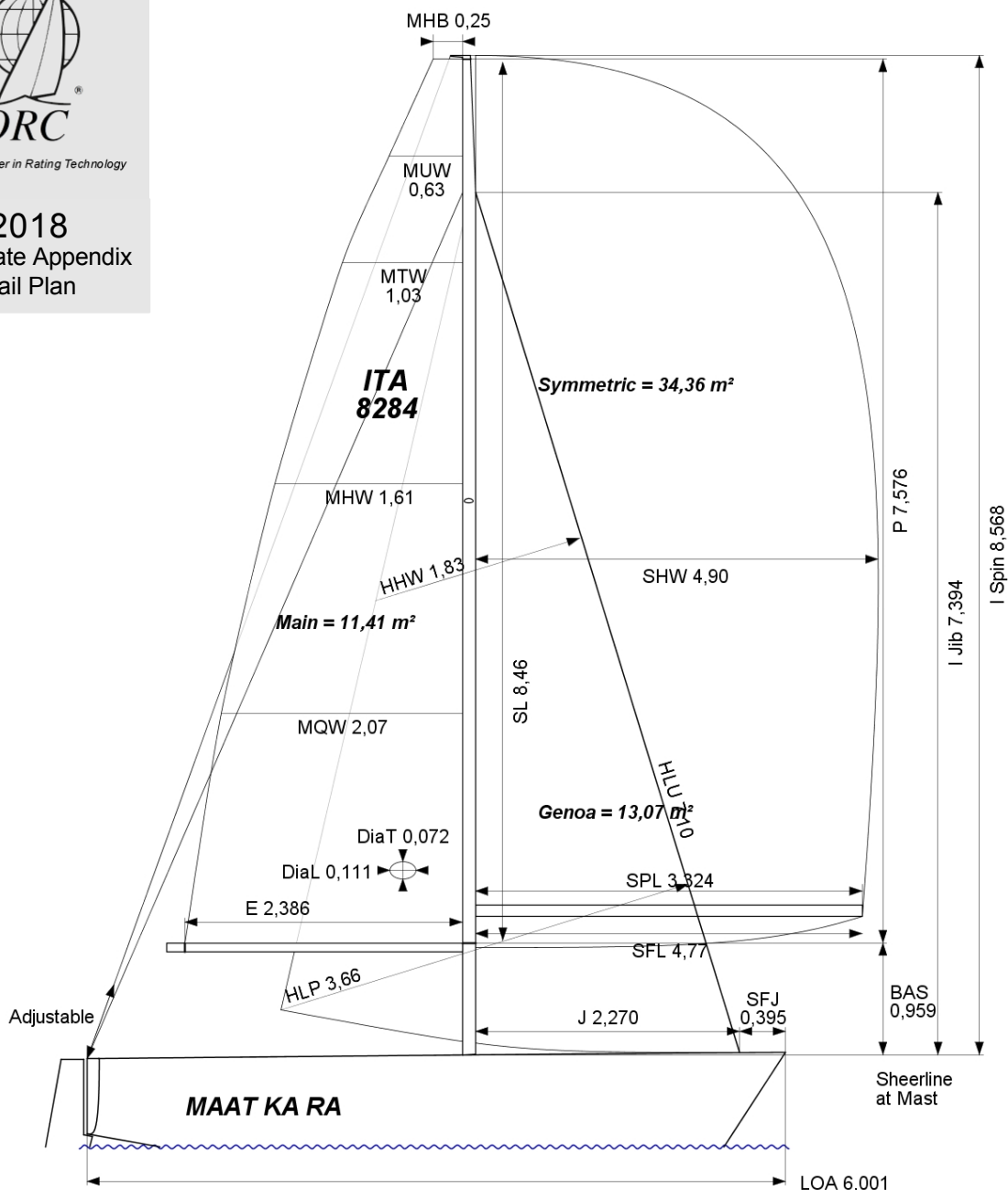
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>PINDOZZI FIV 174</b>				
Date <b>30/04/2018</b>				
Comment <b>Fair Conditions</b>				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	YAMAHA	5 cv	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<b>MEASUREMENT INVENTORY</b>				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
A	Misc	22.2	2.85	OUTBOARD ENGINE



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (2)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.250	0.63	1.03	1.61	2.07	11.41	PINDOZZI	07/04/2018		Dacron	
B	0.129	0.52	0.91	1.54	2.02	10.85	PINDOZZI	07/04/2018		Unknown	

**HEADSAILS (2)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.10	0.49	0.93	1.83	2.74	3.66	7.10	161%	13.07			PINDOZZ	07/04/2018			Unknow
B						2.42	7.19	107%	8.86	Y		PINDOZZ	07/04/2018			Dacron

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	8.46	8.46	8.46	4.90	4.77	34.36	PINDOZZI	07/04/2018	EUROSAIL	Nylon	
A	7.43	7.43	7.43	3.91	3.92	24.22	PINDOZZI	07/04/2018	EUROSAIL	Nylon	

**ASYMMETRIC SPINNAKERS (0)**

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