


<b>BOAT</b> Name <b>TEENIE TANOU</b> Sail Nr <b>C-28</b>	<b>GPH</b> <b>733,7</b>	<b>HULL</b> Length Overall <b>8,120m</b> Maximum Beam <b>3,094m</b> Displacement <b>1.652kg</b> Draft <b>1,378m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,246%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>CARDEL 28</b> Designer Builder <b>PECAL</b> Series <b>01/1982</b> Age <b>01/1982</b> Age Allowance <b>0,488%</b> Offset File <b>CARDEL28.OFF - 1/4/2004 08:01:00</b> Measurement by <b>NAKIS - 18/04/2005</b>		IMSL <b>6,850m</b> VCGD <b>-0,033m</b> Sink <b>10,07kg/mm</b> RL <b>6,050m</b> VCGM <b>-0,044m</b> WS <b>13,34m<sup>2</sup></b> LSMO <b>6,597m</b> Displacement/Length ratio <b>5,7540</b>



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**Rating Office**  
Hellenic Sailing Federation  
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Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>711,5</b>			<b>793,5</b>		
Time On Time	<b>0,8433</b>			<b>0,8507</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,563</b>	<b>29,4</b>		<b>0,715</b>	<b>201,6</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,7974</b>	<b>1,0390</b>	<b>1,1851</b>	<b>0,6168</b>	<b>0,8456</b>	<b>0,9800</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1280,3</b>	<b>1060,7</b>	<b>933,8</b>	<b>858,5</b>	<b>824,3</b>	<b>810,4</b>	<b>812,7</b>
52°	<b>826,2</b>	<b>693,0</b>	<b>624,3</b>	<b>593,4</b>	<b>577,0</b>	<b>570,1</b>	<b>567,5</b>
60°	<b>773,9</b>	<b>655,2</b>	<b>603,2</b>	<b>576,8</b>	<b>557,4</b>	<b>546,8</b>	<b>541,3</b>
75°	<b>731,6</b>	<b>628,6</b>	<b>587,5</b>	<b>560,3</b>	<b>534,9</b>	<b>514,9</b>	<b>498,6</b>
90°	<b>735,1</b>	<b>631,3</b>	<b>583,6</b>	<b>551,0</b>	<b>533,4</b>	<b>510,2</b>	<b>473,7</b>
110°	<b>743,9</b>	<b>623,0</b>	<b>577,5</b>	<b>541,7</b>	<b>507,0</b>	<b>479,1</b>	<b>447,9</b>
120°	<b>766,6</b>	<b>634,6</b>	<b>583,8</b>	<b>548,6</b>	<b>513,8</b>	<b>481,1</b>	<b>420,5</b>
135°	<b>840,6</b>	<b>686,2</b>	<b>606,2</b>	<b>569,7</b>	<b>535,9</b>	<b>503,5</b>	<b>439,6</b>
150°	<b>983,6</b>	<b>780,3</b>	<b>662,8</b>	<b>600,5</b>	<b>567,8</b>	<b>536,6</b>	<b>477,9</b>
Run VMG	<b>1135,8</b>	<b>900,7</b>	<b>761,2</b>	<b>669,6</b>	<b>610,1</b>	<b>576,2</b>	<b>517,7</b>

**Certificate**  
Number **000365**  
ORC Ref **GRE01005612**  
Issued On **13/4/2016**  
VPP Ver. **2016 1.01**  
Valid until **28/2/2017**

**Crew Weight**  
Declared **400kg**  
Default\* **380kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>738,5</b>	<b>0,8125</b>
Double H.OSN	<b>718,3</b>	<b>0,8353</b>
Non Spin GPH	<b>764,5</b>	<b>0,7848</b>
Non Spin OSN	<b>739,5</b>	<b>0,8113</b>
N/S Perf. Line	<b>16,3</b>	<b>0,522</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1208,1</b>	<b>980,7</b>	<b>847,5</b>	<b>764,1</b>	<b>717,2</b>	<b>693,3</b>	<b>665,2</b>
Circular Random	<b>1015,2</b>	<b>818,5</b>	<b>712,0</b>	<b>648,8</b>	<b>608,9</b>	<b>582,0</b>	<b>547,3</b>
Ocean for PCS	<b>1240,8</b>	<b>958,0</b>	<b>797,6</b>	<b>698,3</b>	<b>632,4</b>	<b>585,0</b>	<b>516,0</b>
Non Spinnaker	<b>1068,5</b>	<b>856,5</b>	<b>740,9</b>	<b>672,5</b>	<b>629,7</b>	<b>601,5</b>	<b>566,5</b>

**Sails Limitations**

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

**Class Division Length**  
CDL = **6,451**

**Storm Sails Areas**

Heavy Weather Jib	<b>13,17</b>
Storm Jib (JL=6,42)	<b>4,88</b>
Storm Triesail	<b>4,21</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>44,4°</b>	<b>43,2°</b>	<b>42,7°</b>	<b>40,9°</b>	<b>39,8°</b>	<b>39,3°</b>	<b>40,0°</b>
Beat VMG	<b>2,81</b>	<b>3,39</b>	<b>3,86</b>	<b>4,19</b>	<b>4,37</b>	<b>4,44</b>	<b>4,43</b>
52°	<b>4,36</b>	<b>5,19</b>	<b>5,77</b>	<b>6,07</b>	<b>6,24</b>	<b>6,31</b>	<b>6,34</b>
60°	<b>4,65</b>	<b>5,49</b>	<b>5,97</b>	<b>6,24</b>	<b>6,46</b>	<b>6,58</b>	<b>6,65</b>
75°	<b>4,92</b>	<b>5,73</b>	<b>6,13</b>	<b>6,43</b>	<b>6,73</b>	<b>6,99</b>	<b>7,22</b>
90°	<b>4,90</b>	<b>5,70</b>	<b>6,17</b>	<b>6,53</b>	<b>6,75</b>	<b>7,06</b>	<b>7,60</b>
110°	<b>4,84</b>	<b>5,78</b>	<b>6,23</b>	<b>6,65</b>	<b>7,10</b>	<b>7,51</b>	<b>8,04</b>
120°	<b>4,70</b>	<b>5,67</b>	<b>6,17</b>	<b>6,56</b>	<b>7,01</b>	<b>7,48</b>	<b>8,56</b>
135°	<b>4,28</b>	<b>5,25</b>	<b>5,94</b>	<b>6,32</b>	<b>6,72</b>	<b>7,15</b>	<b>8,19</b>
150°	<b>3,66</b>	<b>4,61</b>	<b>5,43</b>	<b>6,00</b>	<b>6,34</b>	<b>6,71</b>	<b>7,53</b>
Run VMG	<b>3,17</b>	<b>4,00</b>	<b>4,73</b>	<b>5,38</b>	<b>5,90</b>	<b>6,25</b>	<b>6,95</b>
Gybe Angles	<b>147,8°</b>	<b>151,2°</b>	<b>153,0°</b>	<b>169,0°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>

**Owner**

<b>BOAT</b>	
Name <b>TEENIE TANOU</b>	Sail Nr <b>C-28</b>
File <b>C28.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>17/02/2006</b>	SG <b>1,0250</b>	
FFM <b>1,030</b>	FF <b>1,016</b>	SFFP <b>0,560</b>
FAM <b>0,802</b>	FA <b>0,817</b>	SAFP <b>6,124</b>
W1 <b>38,300</b>	PD1 <b>232,0</b>	WD <b>7,526</b>
W2 <b>38,300</b>	PD2 <b>232,0</b>	GSA <b>50,0</b>
W3 <b>38,300</b>	PD3 <b>232,0</b>	RSA <b>5675,0</b>
W4 <b>38,300</b>	PD4 <b>232,0</b>	PLM <b>2010,0</b>
LCF from stem on CL / on sheer		<b>4,304 / 4,564</b>
Maximum beam station from stem		<b>4,624</b>
RM Measured		<b>43,3kg·m</b>
RM Default		<b>33,6kg·m</b>
Limit of positive stability / Stab.Index		<b>114,4° / 106,9</b>
Freeboard at mast at 3,010		<b>0,908</b>



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**IMS Measurement Certificate**

<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>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>8,600</b>	E <b>2,800</b>	MDT1 <b>0,090</b>	MW <b>0,130</b>	
IG <b>9,850</b>	J <b>3,010</b>	MDL1 <b>0,130</b>	GO <b>0,138</b>	
ISP <b>9,850</b>	SFJ <b>0,000</b>	MDT2 <b>0,090</b>	BD <b>0,100</b>	
BAS <b>1,050</b>	SPL <b>2,980</b>	MDL2 <b>0,130</b>	MWT	
FSP <b>0,052</b>	TPS	TL <b>0,000</b>	MCG	

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

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

<b>COMMENTS</b>	

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,105	0,59	1,06	1,79	2,35	14,31	14,56	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	45,70		SL · (SFL + 4·SHW) / 6	
	9,73	9,73	9,73	5,70	5,38				
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>
0,07	0,56	1,07	2,15	3,27	4,47	9,60	21,06			07/04/2015	Polyest	
0,08	0,41	0,77	1,55	2,46	3,53	9,89	16,38			20/04/2012	Dacron	

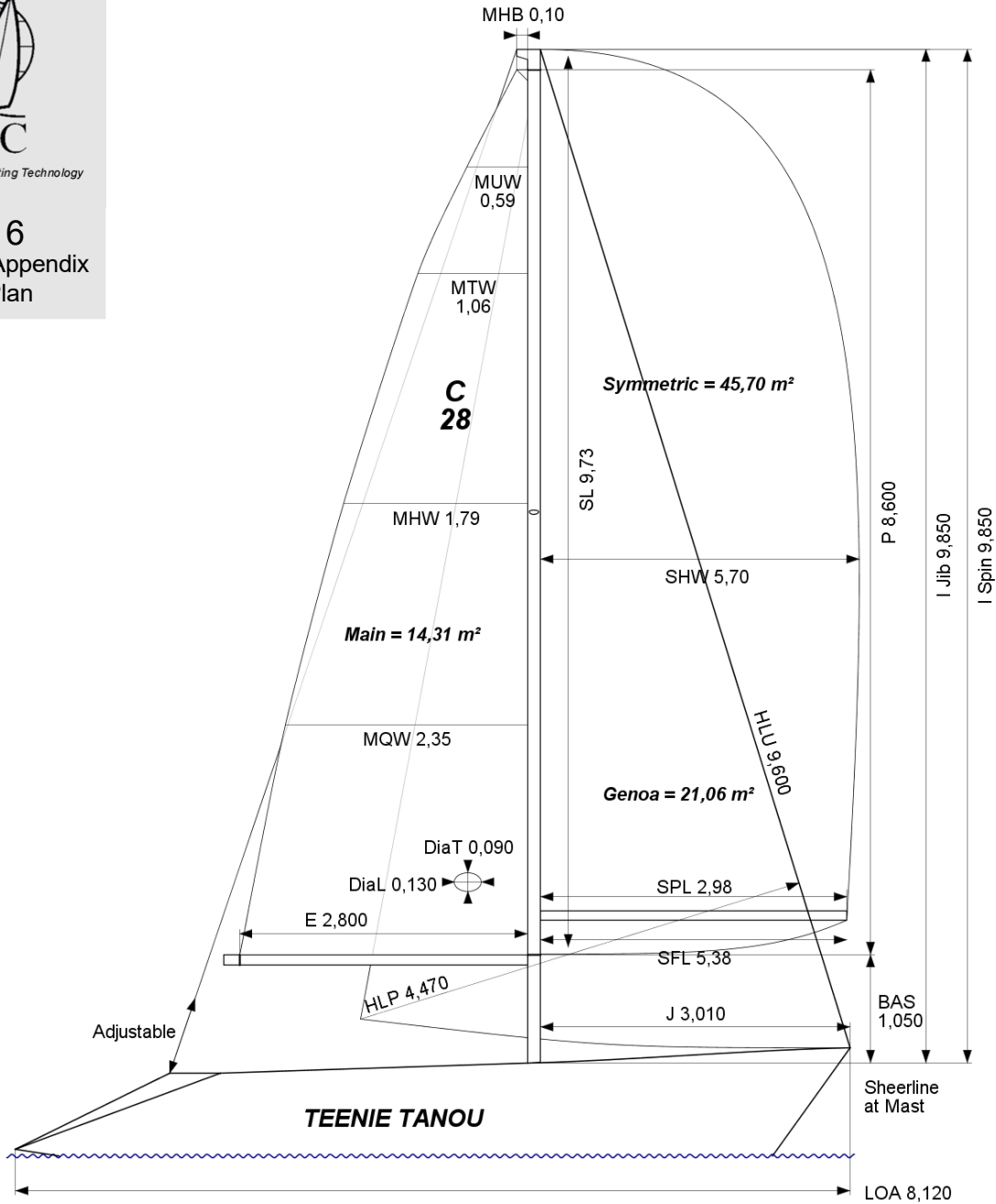
<b>MEASUREMENT INVENTORY</b>				
Measurer	Date <b>20/02/2006</b>			
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
4	Anchor	7,0	2,00	Danforth
2	Anchor	25,0	7,90	Danforth
4	Tools	10,0	3,00	
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	Outboard	15HP	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

<b>MEASUREMENT INVENTORY</b>						
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG Condtn Description</b>
1	Tank Fuel		PVC	22,0	8,00	17,0
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>		
1	Battery	23,0	4,90	1 x 75Ah		
1	Misc	47,0	8,12	Outboard engine 15HP		



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,105	0,59	1,06	1,79	2,35	14,31	AFENDRAS	07/04/2015	QUANTUM	Polyester						
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,07	0,56	1,07	2,15	3,27	4,47	9,60	149%	21,06			AFENDR	07/04/2015	QUANTUM	Polyest	
G2	0,08	0,41	0,77	1,55	2,46	3,53	9,89	117%	16,38			THEODO	20/04/2012		Dacron	
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	9,73	9,73	9,73	5,70	5,38	45,70				Unknown	* Copied from legacy *					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				