

<b>BOAT</b> Name <b>ROPIT IV</b> Sail Nr <b>ITA-14478</b>	<b>GPH</b> <b>597,6</b>	<b>HULL</b> Length Overall <b>12,016m</b> Maximum Beam <b>3,786m</b> Displacement <b>7.858kg</b> Draft <b>2,445m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,059%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>GRAND SOLEIL 40 C</b> Designer <b>PAPERINI</b> Builder <b>DEL PARDO</b> Series <b>12/2000</b> Age <b>05/2003</b> Age Allowance <b>0,487%</b> Offset File <b>GRS40CRO.OFF - 26/01/2015 18:00:32</b> Measurement by <b>BELTRAN - 18/10/2010</b>		IMSL <b>11,113m</b> VCGD <b>0,313m</b> Sink <b>23,60kg/mm</b> RL <b>9,566m</b> VCGM <b>0,157m</b> WS <b>31,42m<sup>2</sup></b> LSM0 <b>11,186m</b> Displacement/Length ratio <b>5,6142</b>



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**2018**  
ORC International  
Certificate

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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>580,6</b>			<b>646,4</b>		
Time on Time	<b>1,0334</b>			<b>1,0442</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>684,6</b>	<b>529,0</b>	<b>474,1</b>	<b>883,5</b>	<b>650,5</b>	<b>563,4</b>
Time on Time	<b>0,9860</b>	<b>1,2760</b>	<b>1,4238</b>	<b>0,7640</b>	<b>1,0377</b>	<b>1,1981</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>983,1</b>	<b>814,8</b>	<b>723,0</b>	<b>682,7</b>	<b>665,1</b>	<b>656,5</b>	<b>647,0</b>
52°	<b>649,0</b>	<b>545,7</b>	<b>497,4</b>	<b>480,5</b>	<b>474,0</b>	<b>470,8</b>	<b>467,5</b>
60°	<b>616,5</b>	<b>522,3</b>	<b>484,2</b>	<b>468,9</b>	<b>462,6</b>	<b>459,0</b>	<b>456,4</b>
75°	<b>592,3</b>	<b>507,4</b>	<b>474,6</b>	<b>458,6</b>	<b>448,1</b>	<b>442,1</b>	<b>436,1</b>
90°	<b>597,8</b>	<b>509,5</b>	<b>473,2</b>	<b>454,8</b>	<b>440,8</b>	<b>428,6</b>	<b>412,2</b>
110°	<b>618,6</b>	<b>510,4</b>	<b>467,5</b>	<b>445,9</b>	<b>427,9</b>	<b>416,0</b>	<b>398,7</b>
120°	<b>637,9</b>	<b>524,2</b>	<b>473,0</b>	<b>448,4</b>	<b>427,5</b>	<b>407,4</b>	<b>381,5</b>
135°	<b>704,0</b>	<b>571,9</b>	<b>497,0</b>	<b>463,8</b>	<b>442,2</b>	<b>420,5</b>	<b>377,9</b>
150°	<b>838,3</b>	<b>665,3</b>	<b>561,2</b>	<b>495,9</b>	<b>465,1</b>	<b>444,7</b>	<b>404,2</b>
Run VMG	<b>968,0</b>	<b>768,2</b>	<b>648,0</b>	<b>567,4</b>	<b>516,0</b>	<b>477,8</b>	<b>436,1</b>

**Certificate**  
Number **144781**  
ORC Ref **ESP00027526**  
Issued On **31/01/2018**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

**Crew Weight**  
Default 808kg  
Maximum **700kg**  
Minimum\* **525kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>601,5</b>	<b>0,9975</b>
Double H.OSN	<b>586,2</b>	<b>1,0235</b>
Non Spin GPH	<b>623,5</b>	<b>0,9623</b>
Non Spin OSN	<b>605,8</b>	<b>0,9904</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>975,5</b>	<b>791,5</b>	<b>685,5</b>	<b>625,1</b>	<b>590,6</b>	<b>567,1</b>	<b>541,5</b>
Circular Random	<b>822,3</b>	<b>664,0</b>	<b>579,6</b>	<b>531,2</b>	<b>501,8</b>	<b>482,8</b>	<b>459,0</b>
Coastal / Long Distance	<b>974,8</b>	<b>744,2</b>	<b>618,6</b>	<b>547,4</b>	<b>511,4</b>	<b>483,4</b>	<b>440,6</b>
Non Spinnaker	<b>868,9</b>	<b>697,1</b>	<b>604,2</b>	<b>550,0</b>	<b>516,8</b>	<b>495,1</b>	<b>467,9</b>

**Sails Limitations**

Headsails	Spinnakers
<b>1</b>	<b>4</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>42,4°</b>	<b>40,8°</b>	<b>40,2°</b>	<b>39,0°</b>	<b>38,1°</b>	<b>37,6°</b>	<b>37,3°</b>
Beat VMG	<b>3,66</b>	<b>4,42</b>	<b>4,98</b>	<b>5,27</b>	<b>5,41</b>	<b>5,48</b>	<b>5,56</b>
52°	<b>5,55</b>	<b>6,60</b>	<b>7,24</b>	<b>7,49</b>	<b>7,59</b>	<b>7,65</b>	<b>7,70</b>
60°	<b>5,84</b>	<b>6,89</b>	<b>7,44</b>	<b>7,68</b>	<b>7,78</b>	<b>7,84</b>	<b>7,89</b>
75°	<b>6,08</b>	<b>7,10</b>	<b>7,59</b>	<b>7,85</b>	<b>8,03</b>	<b>8,14</b>	<b>8,25</b>
90°	<b>6,02</b>	<b>7,07</b>	<b>7,61</b>	<b>7,92</b>	<b>8,17</b>	<b>8,40</b>	<b>8,73</b>
110°	<b>5,82</b>	<b>7,05</b>	<b>7,70</b>	<b>8,07</b>	<b>8,41</b>	<b>8,65</b>	<b>9,03</b>
120°	<b>5,64</b>	<b>6,87</b>	<b>7,61</b>	<b>8,03</b>	<b>8,42</b>	<b>8,84</b>	<b>9,44</b>
135°	<b>5,11</b>	<b>6,29</b>	<b>7,24</b>	<b>7,76</b>	<b>8,14</b>	<b>8,56</b>	<b>9,53</b>
150°	<b>4,29</b>	<b>5,41</b>	<b>6,41</b>	<b>7,26</b>	<b>7,74</b>	<b>8,10</b>	<b>8,91</b>
Run VMG	<b>3,72</b>	<b>4,69</b>	<b>5,56</b>	<b>6,34</b>	<b>6,98</b>	<b>7,53</b>	<b>8,26</b>
Gybe Angles	<b>140,5°</b>	<b>149,2°</b>	<b>149,8°</b>	<b>155,2°</b>	<b>168,9°</b>	<b>180,0°</b>	<b>180,0°</b>

**Class Division Length**  
CDL = **10,340**

**Storm Sails Areas**

Heavy Weather Jib	<b>32,52</b>
Storm Jib (JL=10,09)	<b>12,04</b>
Storm Trysail	<b>13,72</b>

**Owner**

<b>BOAT</b>	
Name <b>ROPIT IV</b>	Sail Nr <b>ITA-14478</b>
File <b>ITA14478</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>18/10/2010</b>	SG <b>1,0260</b>	
FFM <b>1,426</b>	FF <b>1,430</b>	SFFP <b>0,540</b>
FAM <b>1,021</b>	FA <b>1,022</b>	SAFP <b>11,255</b>
W1 <b>93,8</b>	PD1 <b>511,4</b>	WD <b>11,956</b>
W2 <b>93,8</b>	PD2 <b>512,0</b>	GSA <b>1,0</b>
W3 <b>93,8</b>	PD3 <b>510,8</b>	RSA <b>1,0</b>
W4 <b>93,8</b>	PD4 <b>511,2</b>	PLM <b>9000,0</b>
LCF from stem on CL / on sheer		<b>6,777 / 7,025</b>
Maximum beam station from stem		<b>8,051</b>
RM Measured		<b>172,7kg·m</b>
RM Default		<b>198,8kg·m</b>
Limit of positive stability / Stab.Index		<b>108,8° / 113,0</b>
Freeboard at mast at 4,600		<b>1,209</b>



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**IMS Measurement Certificate**

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>3</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>Yes</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>14,590</b>	E <b>5,374</b>	MDT1 <b>0,125</b>	MW <b>0,220</b>	
IG <b>15,460</b>	J <b>4,600</b>	MDL1 <b>0,220</b>	GO <b>0,238</b>	
ISP <b>15,550</b>	SFJ	MDT2 <b>0,125</b>	BD <b>0,125</b>	
BAS <b>1,680</b>	SPL <b>4,470</b>	MDL2 <b>0,220</b>	MWT	
FSP <b>0,073</b>	TPS	TL	MCG	

**Certificate**

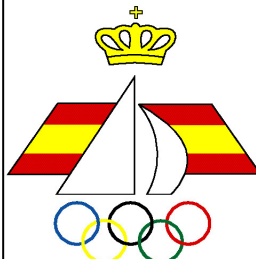
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<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,404</b>	
Type <b>Folding 2 blades</b>	PBW <b>0,112</b>	
Twin Screw <b>No</b>	PIPA <b>0,0038</b>	
ST1 <b>0,049</b>	ST3 <b>0,180</b>	ST5 <b>0,340</b>
ST2 <b>0,180</b>	ST4 <b>0,111</b>	EDL <b>2,512</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	
	0,135	1,16	2,16	3,53	4,56	47,46	48,65	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL			SL · (SFL + 4·SHW) / 6	
	16,13	16,13	16,13	8,46	7,94	112,32			
Asymmetric	SLU	SLE	SL	SHW	SFL			AS · (SFL + 4·SHW) / 6	
	15,50	14,50	15,00	8,21	8,75	103,97			

<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	0,82	1,63	3,26	4,90	6,45	15,30	49,80			28/01/2018	Unknow	
0,08	0,67	1,35	2,61	3,76	4,74	15,34	38,53	Y		13/04/2011		

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>jj beltran</b>				
Date <b>18/10/2010</b>				
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
4	Anchor	18,0	5,70	ancla
4	Chain	40,0	5,70	cadena
4	Tools	8,0	9,40	
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	YANMAR	40 cv	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>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</b>	<b>Condtn</b>	<b>Description</b>
1	Tank	Gasoil	INOX	180,0	9,40		0,0	
2	Tank	Agua	PVC	160,0	9,40		0,0	
3	Tank	agua	pvc	210,0	6,70		0,0	
4	Tank	tanque			9,20			tanque aguas sucias
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG</b>	<b>Description</b>			
1	Battery	18,8	6,60		bateria			
2	Battery	29,8	6,60		bateria			
3	Battery	29,8	6,60		bateria			
4	Battery	29,8	6,60		bateria			

