

<b>BOAT</b> Name <b>XPERIA</b> Sail Nr <b>SWE 84</b>	<b>GPH</b> <b>611.3</b>	<b>HULL</b> Length Overall <b>10.600m</b> Maximum Beam <b>3.250m</b> Displacement <b>4,643kg</b> Draft <b>2.182m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder Crew Arm Extension
<b>GENERAL</b> Class <b>X35 MODIFIED</b> Designer <b>JEPPESEN</b> Builder <b>X YACHTS</b> Series <b>09/2005</b> Age <b>05/2006</b> Age Allowance <b>0.325%</b> Offset File <b>x35.off - 17/12/2005 11:51:04</b> Measurement by <b>MIKAEL LINDQVIST - 16/06/2015</b>		IMSL <b>9.508m</b> VCGD <b>0.038m</b> Sink <b>17.79kg/mm</b> RL <b>9.055m</b> VCGM <b>0.019m</b> WS <b>23.25m<sup>2</sup></b>




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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>595.5</b>			<b>662.3</b>		
Time On Time	<b>1.0075</b>			<b>1.0192</b>		
Performance Line	<b>0.902</b>	<b>128.7</b>		<b>0.892</b>	<b>223.9</b>	
Triple Number	Low <b>0.9695</b>	Medium <b>1.2435</b>	High <b>1.3878</b>	Low <b>0.7462</b>	Medium <b>1.0147</b>	High <b>1.1681</b>

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1008.9</b>	<b>839.6</b>	<b>740.1</b>	<b>701.7</b>	<b>683.4</b>	<b>673.0</b>	<b>677.1</b>
52°	<b>660.3</b>	<b>556.0</b>	<b>510.4</b>	<b>496.1</b>	<b>489.7</b>	<b>486.2</b>	<b>483.1</b>
60°	<b>621.8</b>	<b>532.1</b>	<b>497.3</b>	<b>482.7</b>	<b>476.0</b>	<b>472.3</b>	<b>468.0</b>
75°	<b>591.5</b>	<b>517.0</b>	<b>487.8</b>	<b>468.2</b>	<b>454.4</b>	<b>447.5</b>	<b>442.2</b>
90°	<b>597.1</b>	<b>514.8</b>	<b>486.8</b>	<b>469.7</b>	<b>450.0</b>	<b>431.9</b>	<b>414.6</b>
110°	<b>614.3</b>	<b>517.4</b>	<b>481.5</b>	<b>453.6</b>	<b>434.5</b>	<b>422.4</b>	<b>404.4</b>
120°	<b>635.8</b>	<b>529.7</b>	<b>489.0</b>	<b>461.7</b>	<b>434.1</b>	<b>409.7</b>	<b>387.9</b>
135°	<b>711.1</b>	<b>580.6</b>	<b>514.4</b>	<b>483.7</b>	<b>458.3</b>	<b>432.0</b>	<b>379.7</b>
150°	<b>852.9</b>	<b>679.9</b>	<b>575.1</b>	<b>514.1</b>	<b>484.3</b>	<b>459.7</b>	<b>410.3</b>
Run VMG	<b>984.9</b>	<b>785.1</b>	<b>662.3</b>	<b>577.8</b>	<b>520.7</b>	<b>488.8</b>	<b>440.2</b>

Selected Courses	996.9	812.3	701.2	639.8	602.1	580.9	558.6
Windward / Leeward	<b>996.9</b>	<b>812.3</b>	<b>701.2</b>	<b>639.8</b>	<b>602.1</b>	<b>580.9</b>	<b>558.6</b>
Circular Random	<b>837.1</b>	<b>678.1</b>	<b>593.4</b>	<b>544.6</b>	<b>514.8</b>	<b>495.4</b>	<b>471.5</b>
Ocean for PCS	<b>891.7</b>	<b>708.0</b>	<b>606.3</b>	<b>544.7</b>	<b>504.2</b>	<b>475.2</b>	<b>432.9</b>
Non Spinnaker	<b>889.7</b>	<b>715.0</b>	<b>620.7</b>	<b>565.5</b>	<b>531.5</b>	<b>509.3</b>	<b>481.8</b>

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.0°</b>	<b>42.0°</b>	<b>40.6°</b>	<b>38.9°</b>	<b>37.9°</b>	<b>37.4°</b>	<b>38.4°</b>
Beat VMG	<b>3.57</b>	<b>4.29</b>	<b>4.86</b>	<b>5.13</b>	<b>5.27</b>	<b>5.35</b>	<b>5.32</b>
52°	<b>5.45</b>	<b>6.47</b>	<b>7.05</b>	<b>7.26</b>	<b>7.35</b>	<b>7.40</b>	<b>7.45</b>
60°	<b>5.79</b>	<b>6.77</b>	<b>7.24</b>	<b>7.46</b>	<b>7.56</b>	<b>7.62</b>	<b>7.69</b>
75°	<b>6.09</b>	<b>6.96</b>	<b>7.38</b>	<b>7.69</b>	<b>7.92</b>	<b>8.04</b>	<b>8.14</b>
90°	<b>6.03</b>	<b>6.99</b>	<b>7.40</b>	<b>7.67</b>	<b>8.00</b>	<b>8.33</b>	<b>8.68</b>
110°	<b>5.86</b>	<b>6.96</b>	<b>7.48</b>	<b>7.94</b>	<b>8.28</b>	<b>8.52</b>	<b>8.90</b>
120°	<b>5.66</b>	<b>6.80</b>	<b>7.36</b>	<b>7.80</b>	<b>8.29</b>	<b>8.79</b>	<b>9.28</b>
135°	<b>5.06</b>	<b>6.20</b>	<b>7.00</b>	<b>7.44</b>	<b>7.86</b>	<b>8.33</b>	<b>9.48</b>
150°	<b>4.22</b>	<b>5.30</b>	<b>6.26</b>	<b>7.00</b>	<b>7.43</b>	<b>7.83</b>	<b>8.77</b>
Run VMG	<b>3.66</b>	<b>4.59</b>	<b>5.44</b>	<b>6.23</b>	<b>6.91</b>	<b>7.36</b>	<b>8.18</b>
Gybe Angles	<b>140.5°</b>	<b>149.0°</b>	<b>152.6°</b>	<b>164.8°</b>	<b>176.3°</b>	<b>178.8°</b>	<b>178.3°</b>

**Certificate**

Number  
ORC Ref **SSF00001305**  
Issued On **15/08/2015**  
VPP Ver. **2015 1.01**  
Valid until **31/12/2015**

**Crew Weight**

Declared **640kg**  
Default\* **624kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>640.3</b>	<b>0.9371</b>
Non Spin OSN	<b>621.9</b>	<b>0.9648</b>
N/S Perf. Line	<b>97.7</b>	<b>0.814</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>3</b>

**Class Division Length**

CDL = **9.282**

**Storm Sails Areas**

Heavy Weather Jib	<b>28.67</b>
Storm Jib (JL=9.47)	<b>10.62</b>
Storm Triesail	<b>12.21</b>

**Owner**

<b>BOAT</b>	
Name <b>XPERIA</b> File <b>6238.dxt</b>	Sail Nr <b>SWE 84</b> Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>09/06/2015</b>	SG <b>1.0050</b>	
FFM <b>1.306</b>	FF <b>1.315</b>	SFFP <b>0.075</b>
FAM <b>0.965</b>	FA <b>0.973</b>	SAFP <b>10.275</b>
W1 <b>71.300</b>	PD1 <b>535.4</b>	WD <b>10.995</b>
W2 <b>71.300</b>	PD2 <b>537.4</b>	GSA <b>1.0</b>
W3 <b>71.300</b>	PD3 <b>535.0</b>	RSA <b>1.0</b>
W4 <b>71.300</b>	PD4 <b>533.8</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.985 / 6.180</b>
Maximum beam station from stem		<b>7.300</b>
RM Measured		<b>115.3kg·m</b>
RM Default		<b>123.1kg·m</b>
Limit of positive stability / Stab.Index		<b>117.2° / 118.4</b>
Freeboard at mast at 4.180		<b>1.099</b>

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast	Jumper Struts <b>None</b>			
Taper Hollows	Jib Furler			
Fiber Rigging	Main Furler			
Lenticular Rigging	Without Backstay			
Articulated Bowsprit <b>No</b>				
P <b>14.250</b>	E <b>4.895</b>	MDT1 <b>0.125</b>	MW <b>0.181</b>	
IG <b>14.500</b>	J <b>4.180</b>	MDL1 <b>0.184</b>	GO <b>0.202</b>	
ISP <b>14.540</b>	SFJ <b>0.000</b>	MDT2 <b>0.121</b>	BD <b>0.223</b>	
BAS <b>1.750</b>	SPL <b>4.170</b>	MDL2 <b>0.140</b>	MWT <b>166.50</b>	
FSP	TPS	TL <b>1.250</b>	MCG <b>4.540</b>	



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## 2015 Measurements Datasheet

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.420</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.128</b>	
Twin Screw <b>No</b>	PIPA <b>0.0033</b>	
ST1 <b>0.042</b>	ST3 <b>0.182</b>	ST5 <b>0.255</b>
ST2 <b>0.178</b>	ST4 <b>0.112</b>	EDL <b>2.390</b>

<b>Certificate</b>	
Number	ORC Ref <b>SSF00001305</b>
Issued On	<b>15/08/2015</b>
VPP Ver.	<b>2015 1.01</b>
Valid until	<b>31/12/2015</b>

<b>COMMENTS</b>

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



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<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>						
Mainsail	HB	MGT	MGU	MGM	MGL	Area Area (r) Formula
	0.210	1.07	1.86	3.17	4.12	41.75 42.59 $P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric	SL	SMG	SF			
	14.35	7.75	7.48	92.03	$SL \cdot (SF + 4 \cdot SMG) / 6$	
Asymmetric Not Available						

<b>HEADSAILS</b>												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	0.65	1.20	2.26	3.32	4.44	14.43	32.59	Y		20/05/2014	Carbon	
0.10	0.65	1.19	2.27	3.34	4.38	14.44	32.55	Y		22/04/2015	Carbon	
0.09	0.46	0.86	1.80	2.83	3.91	14.25	26.78	Y		16/04/2014	Carbon	

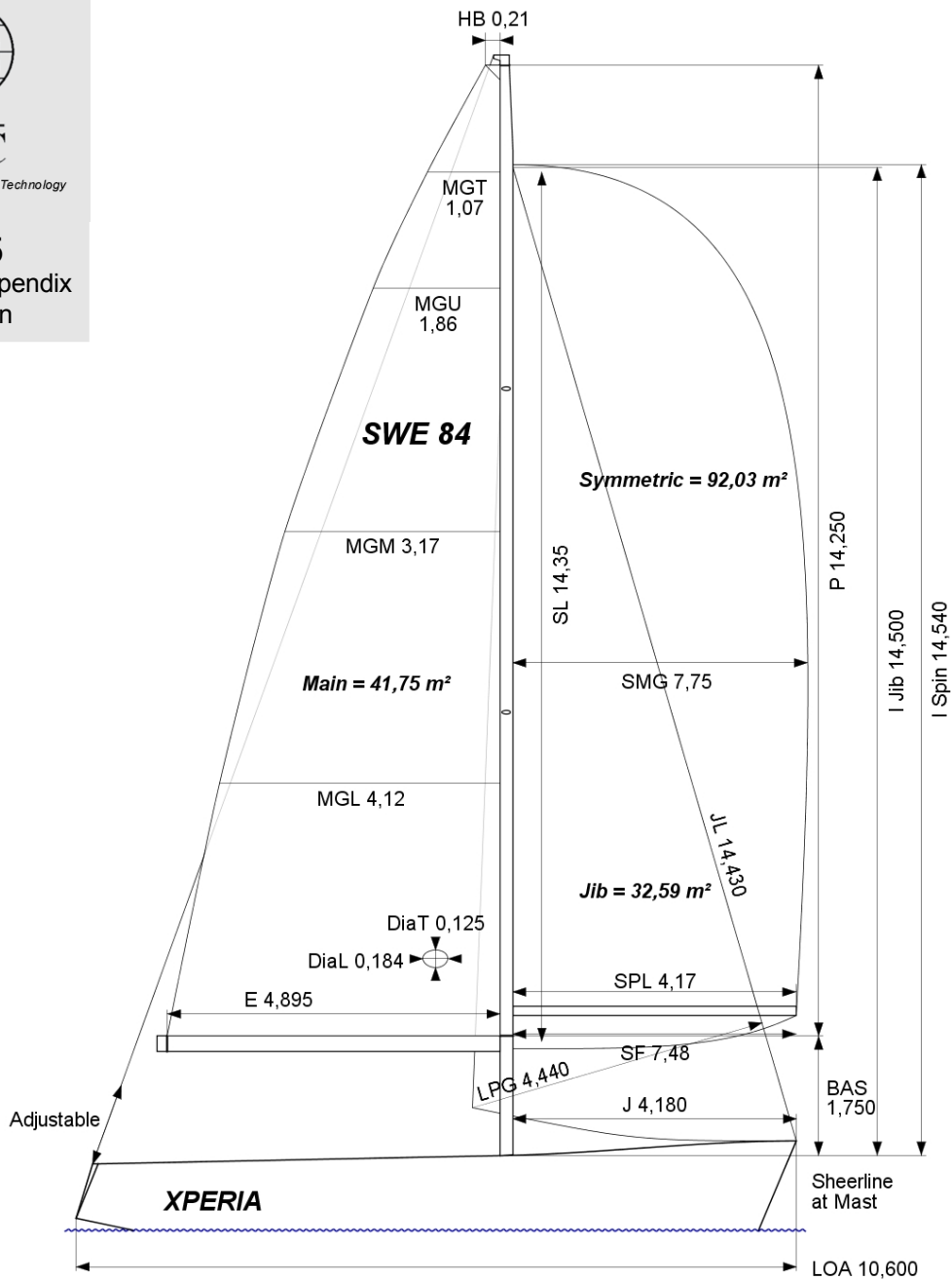
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>MIKAEL LINDQVIST 1129</b>				
Date <b>16/06/2015</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
M1	Engine	YANMAR	3YM20	
Id	Item	Weight	Description	

<b>MEASUREMENT INVENTORY</b>							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
F1	Tank	FUEL	S.S.	60.0	6.20	0.10	00-0
W2	Tank	WATER	PLASTIC	130.0	5.60	0.10	0-0
W1	Tank	WATER	S.S.	15.0	7.20	0.50	0-0 WATER HEATER
Id	Item	Weight	Distance	VCG Description			
B2	Ballast	150.0	5.60	0.00	LEAD 5 X 30 KG		
B1	Ballast	70.0	4.90	0.00	LEAD 2 X 30 KG + 1 X 10 KG		
B2	Battery		5.20	0.10	75 Ah		
B1	Battery		5.00	0.10	100 Ah		



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M3AP14	0.210	1.07	1.86	3.17	4.12	41.75	ULF	08/02/2014		Carbon	

**HEADSAILS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J1L14	0.10	0.65	1.20	2.26	3.32	4.44	14.43	106%	32.59	Y		ULF	20/05/2014		Carbon	
J2L15	0.10	0.65	1.19	2.27	3.34	4.38	14.44	105%	32.55	Y		ULF	22/04/2015		Carbon	
J3M15	0.09	0.46	0.86	1.80	2.83	3.91	14.25	94%	26.78	Y		ULF	16/04/2014		Carbon	

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1.5M14	14.35	7.75	7.48	92.03	ULF	23/04/2014		Unknown	
S1L15	14.36	7.73	7.52	92.00	ULF	18/03/2015		Unknown	
S3R13	14.09	6.90	7.34	82.05	ULF	11/03/2013		Unknown	

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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