

<b>BOAT</b> Name <b>MALIN</b> Sail Nr <b>SWE 88</b>	<b>GPH</b> <b>619.0</b>	<b>HULL</b> Length Overall <b>10.640m</b> Maximum Beam <b>3.458m</b> Displacement <b>5,925kg</b> Draft <b>2.240m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 36,7 MOD</b> Designer <b>FARR YACHT DESIGN</b> Builder <b>BENETEAU</b> Series <b>09/2001</b> Age <b>06/2002</b> Age Allowance <b>0.455%</b> Offset File <b>F196MOD_2010_RUD_verified.off -</b> Measurement by <b>T.ANDERSSON - 31/05/2011</b>		IMSL <b>9.678m</b> VCGD <b>0.082m</b> Sink <b>19.72kg/mm</b> RL <b>8.812m</b> VCGM <b>0.055m</b> WS <b>26.11m<sup>2</sup></b>




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**2015**  
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Offshore  
Racing  
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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>603.9</b>			<b>670.4</b>		
Time On Time	<b>0.9935</b>			<b>1.0068</b>		
Performance Line	<b>0.899</b>	<b>134.1</b>		<b>0.867</b>	<b>214.1</b>	
Triple Number	Low <b>0.9587</b>	Medium <b>1.2270</b>	High <b>1.3707</b>	Low <b>0.7372</b>	Medium <b>1.0004</b>	High <b>1.1576</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1017.1</b>	<b>852.8</b>	<b>754.8</b>	<b>711.3</b>	<b>690.4</b>	<b>677.8</b>	<b>675.8</b>
52°	<b>665.8</b>	<b>563.0</b>	<b>515.1</b>	<b>499.1</b>	<b>492.0</b>	<b>488.3</b>	<b>484.8</b>
60°	<b>627.9</b>	<b>535.1</b>	<b>499.7</b>	<b>486.1</b>	<b>479.3</b>	<b>475.5</b>	<b>470.8</b>
75°	<b>585.2</b>	<b>513.3</b>	<b>486.8</b>	<b>470.5</b>	<b>459.6</b>	<b>453.3</b>	<b>445.6</b>
90°	<b>583.9</b>	<b>516.2</b>	<b>490.6</b>	<b>472.7</b>	<b>455.7</b>	<b>440.1</b>	<b>422.9</b>
110°	<b>633.2</b>	<b>528.3</b>	<b>489.9</b>	<b>465.6</b>	<b>444.8</b>	<b>433.8</b>	<b>405.1</b>
120°	<b>654.0</b>	<b>542.1</b>	<b>496.7</b>	<b>472.3</b>	<b>449.0</b>	<b>426.7</b>	<b>404.8</b>
135°	<b>727.2</b>	<b>595.6</b>	<b>523.3</b>	<b>490.9</b>	<b>468.6</b>	<b>446.2</b>	<b>403.0</b>
150°	<b>864.4</b>	<b>688.3</b>	<b>583.9</b>	<b>521.1</b>	<b>490.6</b>	<b>468.9</b>	<b>425.8</b>
Run VMG	<b>998.1</b>	<b>794.8</b>	<b>672.1</b>	<b>585.7</b>	<b>526.6</b>	<b>494.1</b>	<b>450.9</b>

Selected Courses							
Windward / Leeward	<b>1007.6</b>	<b>823.8</b>	<b>713.4</b>	<b>648.5</b>	<b>608.5</b>	<b>586.0</b>	<b>563.3</b>
Circular Random	<b>846.4</b>	<b>686.3</b>	<b>601.0</b>	<b>551.6</b>	<b>521.3</b>	<b>501.6</b>	<b>477.3</b>
Ocean for PCS	<b>901.9</b>	<b>716.8</b>	<b>614.3</b>	<b>552.2</b>	<b>511.7</b>	<b>483.1</b>	<b>442.6</b>
Non Spinnaker	<b>892.7</b>	<b>718.9</b>	<b>624.9</b>	<b>569.9</b>	<b>536.0</b>	<b>514.0</b>	<b>488.0</b>

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>43.1°</b>	<b>42.3°</b>	<b>41.4°</b>	<b>39.4°</b>	<b>38.6°</b>	<b>37.8°</b>	<b>38.3°</b>
Beat VMG	<b>3.54</b>	<b>4.22</b>	<b>4.77</b>	<b>5.06</b>	<b>5.21</b>	<b>5.31</b>	<b>5.33</b>
52°	<b>5.41</b>	<b>6.39</b>	<b>6.99</b>	<b>7.21</b>	<b>7.32</b>	<b>7.37</b>	<b>7.43</b>
60°	<b>5.73</b>	<b>6.73</b>	<b>7.20</b>	<b>7.41</b>	<b>7.51</b>	<b>7.57</b>	<b>7.65</b>
75°	<b>6.15</b>	<b>7.01</b>	<b>7.40</b>	<b>7.65</b>	<b>7.83</b>	<b>7.94</b>	<b>8.08</b>
90°	<b>6.17</b>	<b>6.97</b>	<b>7.34</b>	<b>7.62</b>	<b>7.90</b>	<b>8.18</b>	<b>8.51</b>
110°	<b>5.69</b>	<b>6.81</b>	<b>7.35</b>	<b>7.73</b>	<b>8.09</b>	<b>8.30</b>	<b>8.89</b>
120°	<b>5.50</b>	<b>6.64</b>	<b>7.25</b>	<b>7.62</b>	<b>8.02</b>	<b>8.44</b>	<b>8.89</b>
135°	<b>4.95</b>	<b>6.04</b>	<b>6.88</b>	<b>7.33</b>	<b>7.68</b>	<b>8.07</b>	<b>8.93</b>
150°	<b>4.16</b>	<b>5.23</b>	<b>6.17</b>	<b>6.91</b>	<b>7.34</b>	<b>7.68</b>	<b>8.45</b>
Run VMG	<b>3.61</b>	<b>4.53</b>	<b>5.36</b>	<b>6.15</b>	<b>6.84</b>	<b>7.29</b>	<b>7.98</b>
Gybe Angles	<b>144.8°</b>	<b>150.7°</b>	<b>155.1°</b>	<b>168.1°</b>	<b>176.2°</b>	<b>179.0°</b>	<b>179.0°</b>

**Certificate**

Number **5841**  
ORC Ref **SSF00001319**  
Issued On **19/08/2015**  
VPP Ver. **2015 1.01**  
Valid until **31/12/2015**

**Crew Weight**

Declared **626kg**  
Default\* **651kg**  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **644.4 0.9311**  
Non Spin OSN **626.8 0.9572**  
N/S Perf. Line **105.2 0.819**

**Sails Limitations**

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

**Class Division Length**

CDL = **9.246**

**Storm Sails Areas**

Heavy Weather Jib **30.91**  
Storm Jib (JL=9.84) **11.45**  
Storm Trysail **12.56**

**Owner**

<b>BOAT</b>	
Name <b>MALIN</b>	Sail Nr <b>SWE 88</b>
File <b>5841.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>21/04/2015</b>	SG <b>1.0050</b>	
FFM <b>1.334</b>	FF <b>1.341</b>	SFFP <b>0.367</b>
FAM <b>1.026</b>	FA <b>1.031</b>	SAFP <b>10.161</b>
W1 <b>90.800</b>	PD1 <b>567.3</b>	WD <b>11.150</b>
W2 <b>90.800</b>	PD2 <b>560.1</b>	GSA <b>1.0</b>
W3 <b>90.800</b>	PD3 <b>566.5</b>	RSA <b>1.0</b>
W4 <b>90.800</b>	PD4 <b>565.3</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.934 / 6.163</b>
Maximum beam station from stem		<b>6.980</b>
RM Measured		<b>141.2kg·m</b>
RM Default		<b>148.1kg·m</b>
Limit of positive stability / Stab.Index		<b>116.3° / 118.9</b>
Freeboard at mast at 3.977		<b>1.185</b>



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## 2015 Measurements Datasheet

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast <b>Yes</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>14.350</b>	E <b>5.000</b>	MDT1 <b>0.140</b>	MW <b>0.215</b>	
IG <b>15.037</b>	J <b>3.977</b>	MDL1 <b>0.215</b>	GO <b>0.240</b>	
ISP <b>15.772</b>	SFJ <b>0.000</b>	MDT2 <b>0.120</b>	BD <b>0.250</b>	
BAS <b>1.585</b>	SPL <b>4.250</b>	MDL2 <b>0.198</b>	MWT <b>151.50</b>	
FSP <b>0.068</b>	TPS <b>4.332</b>	TL <b>1.080</b>	MCG <b>5.650</b>	

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.406</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.120</b>	
Twin Screw <b>No</b>	PIPA <b>0.0031</b>	
ST1 <b>0.048</b>	ST3 <b>0.170</b>	ST5 <b>0.283</b>
ST2 <b>0.170</b>	ST4 <b>0.098</b>	EDL <b>2.481</b>

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



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Invalid for Racing

<b>SAILS (Maximum Areas)</b>						
Mainsail	HB	MGT	MGU	MGM	MGL	
	0.215	1.09	1.91	3.24	4.13	
	Area	Area (r)	Formula			
	42.70	43.56	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)			
Symmetric	SL	SMG	SF			
	15.20	7.72	7.52	97.28		
Asymmetric	Not Available					
Formula: SL · (SF + 4 · SMG) / 6						

<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
0.12	0.78	1.46	2.84	4.37	5.96	14.58	42.75		Y	12/01/2015	Unknow	
0.08	0.71	1.38	2.82	4.30	5.88	14.82	42.61	N		05/12/2013	Unknow	
0.08	0.67	1.32	2.70	4.20	5.83	14.90	41.76			12/06/2012	Unknow	
0.09	0.61	1.18	2.22	3.24	4.22	14.93	32.66	Y		06/12/2012	Unknow	
0.07	0.46	0.85	1.77	2.82	4.01	14.05	26.47	Y		21/12/2009	Unknow	
0.08	0.47	0.88	1.71	2.57	3.44	13.20	22.81	Y		06/05/2015	Unknow	
0.06	0.48	0.86	1.49	2.05	2.73	13.03	18.80	Y		12/01/2015	Unknow	
					2.84	8.38	12.12			04/04/2012	Unknow	

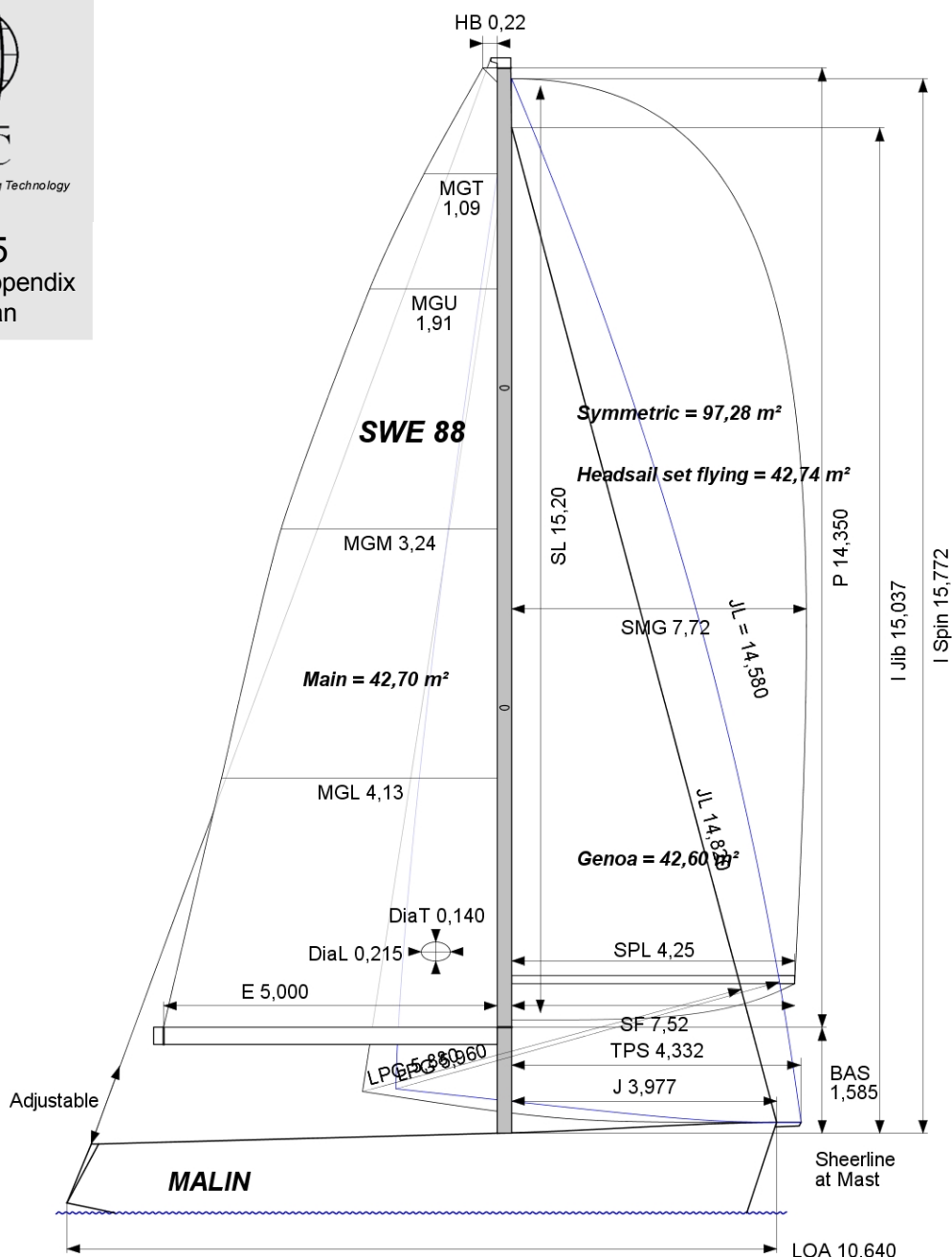
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>HAKAN LINDQVIST 301</b>				
Date <b>21/04/2015</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
E1	Engine	VOLVO PENTA	MD2030	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

<b>MEASUREMENT INVENTORY</b>									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
BOI	Tank	WATER	S.S.	25.0	8.00	0.00	0-0		
F1	Tank	FUEL	GRP	70.0	8.70	0.00	0-0		
WA	Tank	WASTE	S.S.	50.0	5.25	0.00	0-0		
W2	Tank	WATER	GRP	150.0	4.80	0.00	0-0		
W1	Tank	WATER	GRP	42.0	4.45	0.00	0-0		
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
N1	Ballast			NONE					
B2	Battery	24.0	7.00	0.00	1 X 66 Ah				
B1	Battery	76.0	7.00	0.00	2 X 130 Ah				
DE	Misc		6.00	0.00					
AU	Misc		9.80	0.00					
HE	Misc		10.10	0.00					
CH	Misc		7.80	0.00					



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**2015**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3DL2012	0.215	1.09	1.91	3.24	4.13	42.70	SWE957	12/06/2012	NORTH	Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
REAC	0.12	0.78	1.46	2.84	4.37	5.96	14.58	150%	42.75		Y	SWE957	12/01/2015	NORTH	Unknown	
G1,1	0.08	0.71	1.38	2.82	4.30	5.88	14.82	148%	42.61	N		SWE957	05/12/2013	NORTH	Unknown	
G1,2	0.08	0.67	1.32	2.70	4.20	5.83	14.90	147%	41.76			SWE957	12/06/2012	NORTH	Unknown	
JIB3,1	0.09	0.61	1.18	2.22	3.24	4.22	14.93	106%	32.66		Y	SWE957	06/12/2012	NORTH	Unknown	
JIB3,3	0.07	0.46	0.85	1.77	2.82	4.01	14.05	101%	26.47		Y	SWE957	21/12/2009	NORTH	Unknown	
JIB	0.08	0.47	0.88	1.71	2.57	3.44	13.20	86%	22.81		Y	SWE957	06/05/2015	NORTH	Unknown	
STAY	0.06	0.48	0.86	1.49	2.05	2.73	13.03	69%	18.80		Y	SWE957	12/01/2015	NORTH	Unknown	
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
S2-2012	15.20	7.72	7.52	97.28	SWE957	12/06/2012	NORTH	Unknown								
S1-2012	15.41	7.60	7.46	97.24	SWE957	06/06/2012	NORTH	Unknown								
S3-2012	15.70	7.00	7.90	93.94	SWE957	04/04/2012	NORTH	Unknown								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				