

<b>BOAT</b> Name <b>X-35 ONE DESIGN</b> Sail Nr <b>X-35</b>	<b>GPH</b> <b>602.6</b>	<b>HULL</b> Length Overall <b>10.600m</b> Maximum Beam <b>3.250m</b> Displacement <b>4.487kg</b> Draft <b>2.173m</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 <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>X-35 OD</b> Designer <b>JEPPESEN</b> Builder <b>X-YACHTS</b> Series <b>09/2005</b> Age <b>09/2005</b> Age Allowance <b>0.455%</b> Offset File <b>x35.od - 11/04/2019 22:04:23</b> Measurement by <b>KALL - 04/05/2006</b>		IMSL <b>9.449m</b> VCGD <b>0.053m</b> Sink <b>17.60kg/mm</b> RL <b>9.076m</b> VCGM <b>0.043m</b> WS <b>22.90m<sup>2</sup></b> LSMO <b>9.270m</b> Displacement/Length ratio <b>5.6327</b>



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2019 (Test)**  
ORC International  
One Design Certificate

<b>Rating Office</b>
----------------------

<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>587.5</b>			<b>653.8</b>		
Time on Time	<b>1.0213</b>			<b>1.0324</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>677.1</b>	<b>537.7</b>	<b>485.1</b>	<b>870.2</b>	<b>655.9</b>	<b>579.0</b>
Time on Time	<b>0.9969</b>	<b>1.2553</b>	<b>1.3914</b>	<b>0.7757</b>	<b>1.0291</b>	<b>1.1658</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>972.3</b>	<b>806.2</b>	<b>725.2</b>	<b>700.9</b>	<b>691.3</b>	<b>680.5</b>	<b>676.5</b>
52°	<b>642.9</b>	<b>546.1</b>	<b>510.6</b>	<b>500.4</b>	<b>496.1</b>	<b>493.3</b>	<b>486.5</b>
60°	<b>610.2</b>	<b>528.8</b>	<b>499.1</b>	<b>487.8</b>	<b>482.9</b>	<b>480.3</b>	<b>471.3</b>
75°	<b>585.4</b>	<b>517.7</b>	<b>490.0</b>	<b>472.6</b>	<b>462.3</b>	<b>456.8</b>	<b>449.8</b>
90°	<b>590.4</b>	<b>518.2</b>	<b>489.2</b>	<b>468.3</b>	<b>449.3</b>	<b>435.0</b>	<b>422.1</b>
110°	<b>604.6</b>	<b>513.2</b>	<b>478.0</b>	<b>452.2</b>	<b>436.2</b>	<b>423.7</b>	<b>404.0</b>
120°	<b>622.6</b>	<b>522.1</b>	<b>483.4</b>	<b>453.8</b>	<b>426.3</b>	<b>406.1</b>	<b>380.8</b>
135°	<b>690.5</b>	<b>562.9</b>	<b>504.4</b>	<b>474.2</b>	<b>445.8</b>	<b>418.4</b>	<b>361.2</b>
150°	<b>818.9</b>	<b>655.0</b>	<b>556.2</b>	<b>504.2</b>	<b>475.9</b>	<b>449.4</b>	<b>398.6</b>
Run VMG	<b>945.6</b>	<b>756.3</b>	<b>641.2</b>	<b>569.7</b>	<b>519.0</b>	<b>487.2</b>	<b>437.0</b>

<b>Certificate</b> Number <b>X35OD</b> ORC Ref <b>N/A</b> Issued On <b>11/04/2019</b> VPP Ver. <b>2019 1.01</b> <b>Invalid for Racing</b>
--

<b>Crew Weight</b> Default <b>618kg</b> Maximum <b>640kg</b> Minimum* <b>480kg</b> <i>*when applied by the NoR and SI</i> Non Manual Pwr <b>No</b>
---

<b>Special Scoring</b>
ToD ToT
Double H.GPH <b>614.0 0.9771</b>
Double H.OSN <b>601.0 0.9984</b>
Non Spin GPH <b>632.1 0.9492</b>
Non Spin OSN <b>615.4 0.9750</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>959.0</b>	<b>781.3</b>	<b>683.2</b>	<b>635.3</b>	<b>605.2</b>	<b>583.8</b>	<b>556.8</b>
Circular Random	<b>817.5</b>	<b>665.3</b>	<b>585.4</b>	<b>540.0</b>	<b>512.2</b>	<b>493.5</b>	<b>468.0</b>
Coastal / Long Distance	<b>957.6</b>	<b>736.2</b>	<b>620.7</b>	<b>559.5</b>	<b>524.4</b>	<b>494.8</b>	<b>448.6</b>
Non Spinnaker	<b>870.7</b>	<b>702.8</b>	<b>613.1</b>	<b>561.4</b>	<b>529.7</b>	<b>508.7</b>	<b>481.3</b>

<b>Sails Limitations</b>	
Headsails <b>5</b>	Spinnakers <b>3</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>42.1°</b>	<b>40.8°</b>	<b>39.0°</b>	<b>37.7°</b>	<b>37.7°</b>	<b>37.2°</b>	<b>38.0°</b>
Beat VMG	<b>3.70</b>	<b>4.47</b>	<b>4.96</b>	<b>5.14</b>	<b>5.21</b>	<b>5.29</b>	<b>5.32</b>
52°	<b>5.60</b>	<b>6.59</b>	<b>7.05</b>	<b>7.19</b>	<b>7.26</b>	<b>7.30</b>	<b>7.40</b>
60°	<b>5.90</b>	<b>6.81</b>	<b>7.21</b>	<b>7.38</b>	<b>7.46</b>	<b>7.49</b>	<b>7.64</b>
75°	<b>6.15</b>	<b>6.95</b>	<b>7.35</b>	<b>7.62</b>	<b>7.79</b>	<b>7.88</b>	<b>8.00</b>
90°	<b>6.10</b>	<b>6.95</b>	<b>7.36</b>	<b>7.69</b>	<b>8.01</b>	<b>8.28</b>	<b>8.53</b>
110°	<b>5.95</b>	<b>7.01</b>	<b>7.53</b>	<b>7.96</b>	<b>8.25</b>	<b>8.50</b>	<b>8.91</b>
120°	<b>5.78</b>	<b>6.90</b>	<b>7.45</b>	<b>7.93</b>	<b>8.44</b>	<b>8.86</b>	<b>9.45</b>
135°	<b>5.21</b>	<b>6.39</b>	<b>7.14</b>	<b>7.59</b>	<b>8.08</b>	<b>8.60</b>	<b>9.97</b>
150°	<b>4.40</b>	<b>5.50</b>	<b>6.47</b>	<b>7.14</b>	<b>7.56</b>	<b>8.01</b>	<b>9.03</b>
Run VMG	<b>3.81</b>	<b>4.76</b>	<b>5.61</b>	<b>6.32</b>	<b>6.94</b>	<b>7.39</b>	<b>8.24</b>
Gybe Angles	<b>142.4°</b>	<b>148.3°</b>	<b>151.4°</b>	<b>158.9°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

<b>Class Division Length</b> CDL = <b>9.263</b>
--

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>28.66</b>
Storm Jib (JL=9.48) <b>10.62</b>
Storm Trysail <b>12.22</b>

<b>Owner</b>
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2019**  
**IMS Measurement**  
**Certificate**

**Certificate**

Number **X350D**  
ORC Ref **N/A**  
Issued On **11/04/2019**  
VPP Ver. **2019 1.01**  
**Invalid for Racing**

<b>BOAT</b>	
Name <b>X-35 ONE DESIGN</b>	Sail Nr <b>X-35</b>
File <b>X35</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>04/05/2006</b>				SG <b>1.0250</b>	
FFM <b>1.321</b>	FF <b>1.323</b>	SFFP <b>0.075</b>			
FAM <b>0.980</b>	FA <b>0.983</b>	SAFP <b>10.275</b>			
W1 <b>70.0</b>	PD1 <b>554.0</b>	WD <b>11.240</b>			
W2 <b>70.0</b>	PD2 <b>558.9</b>	GSA <b>1.0</b>			
W3 <b>70.0</b>	PD3 <b>554.0</b>	RSA <b>1.0</b>			
W4 <b>70.0</b>	PD4 <b>552.5</b>	PLM <b>9000.0</b>			
LCF from stem on CL / on sheer				<b>5.956 / 6.160</b>	
Maximum beam station from stem				<b>7.300</b>	
RM Measured				<b>111.7kg·m</b>	
RM Default				<b>121.4kg·m</b>	
Limit of positive stability / Stab.Index				<b>116.3° / 117.0</b>	
Freeboard at mast at 4.185				<b>1.108</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 <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>14.250</b>	E <b>4.900</b>	MDT1 <b>0.125</b>	MW <b>0.184</b>		
IG <b>14.500</b>	J <b>4.185</b>	MDL1 <b>0.185</b>	GO <b>0.204</b>		
ISP <b>14.530</b>	SFJ <b>0.000</b>	MDT2 <b>0.122</b>	BD <b>0.220</b>		
BAS <b>1.745</b>	SPL <b>4.180</b>	MDL2 <b>0.140</b>	MWT <b>156.00</b>		
FSP <b>0.068</b>	TPS	TL <b>1.230</b>	MCG <b>4.600</b>		

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

<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>COMMENTS</b>	
O.D. TRIM PLUS TABLE AND CUSHIONS LESS ANCHOR	

<b>MOVABLE BALLAST</b>	
<b>N/A</b>	

<b>CENTERBOARD</b>	
<b>N/A</b>	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.210	1.08	1.88	3.19	4.14	41.98	42.84	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.36	14.36	14.36	7.75	7.52	92.19		SL · (SFL + 4·SHW) / 6	
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	0.63	1.21	2.29	3.34	4.40	14.60	33.04	Y	N	01/03/2007	Kevlar	One Design Rule

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Gerd Kall kall</b>				
Date <b>04/05/2006</b>				
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
4	Anchor	40.0	6.70	0.00 Anchor 4
4	Chain	8.0	5.50	0.00 Warp
4	Tools	43.0	7.50	0.00
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	Yanmar	3YM20C	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Description</b>	
4	Deck-Gear	9.2	0	

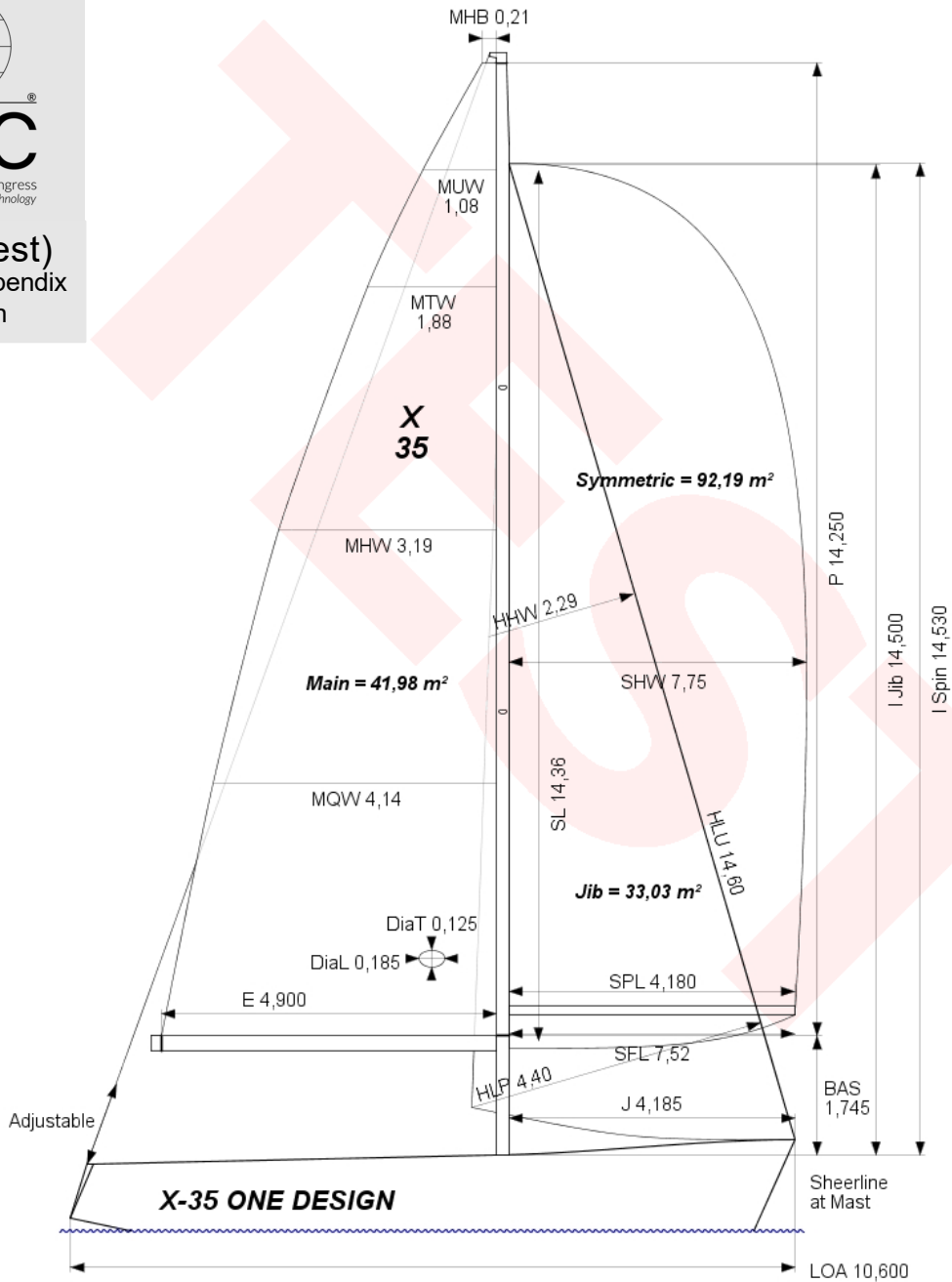
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condn Description</b>
1	Tank fuel		st.stl	60.0	5.95	0.00	0-0 fuel
2	Tank H2O		pvc	120.0	5.35	0.00	0-0 Water
3	Tank gas		steel	2.0	9.45	0.00	0-0 LPG gas
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
<b>Ballast</b>							
1	Battery	46.8	4.65	0.00 120 Ah gel - services			
2	Battery	18.4	5.00	0.00 55 Ah - engine			
1	Misc	20.0	5.00	0.00 Table			
2	Misc	8.0	5.00	0.00 Safety Equipment			



**ORC**

Offshore Racing Congress  
World leader in rating technology

2019 (Test)  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.21	1.08	1.88	3.19	4.14	41.98				Unknown	* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	0.63	1.21	2.29	3.34	4.40	14.60	105%	33.04	Y	N	X-35	01/03/2007	Any	Kevlar	One Design Rule
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	14.36	14.36	14.36	7.75	7.52	92.20				Unknown	* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				