

BOAT
Name X-35 ONE DESIGN
Sail Nr

GPH
601,8

HULL	
Length Overall	10,600 m
Maximum Beam	3,254 m
Displacement	4 527 kg
Draft	2,175 m
IMS Reg. Division	Cruiser/Racer
Accommodation length	10,571 m
Dynamic Allowance	0,05%
Fwd Accommodation	Yes
Hull Construction	Cored
Carbon Rudder	No
Trim Tab	No
IMS L	9,628
VCGD	0,061
VCGM	0,049



2008
ORC International
Certificate

GENERAL
Class X-35 OD
Designer JEPPESEN
Builder X YACHTS
Series 09.2005
Age 09.2005
Age Allowance 0,20%
Offset File X35.off - 29.5.2006 10:52:52
Measurement by KALL - 04.05.2006

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	601,8			671,4		
Time On Time	0,9970			1,0054		
Performance Line	PLT	PLD		PLT	PLD	
	0,816	87,8		1,215	409,2	
Triple Number	Low	Medium	High	Low	Medium	High
	0,9992	1,2635	1,4039	0,7647	1,0221	1,1655

Rating Office
FSF RATING OFFICE
JOAKIM MAJANDER
MATINLAHDENKATU 3 E25
FIN-02230 ESPOO FINLAND



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	997,2	812,5	738,6	706,1	687,6	677,6	675,2
52°	648,2	547,5	509,2	494,7	486,5	482,0	478,7
60°	604,3	527,5	490,3	477,9	470,6	466,2	461,8
75°	577,5	510,1	478,4	457,0	448,5	442,7	435,2
90°	558,9	490,0	464,2	453,0	438,1	423,2	412,7
110°	567,2	501,9	465,6	436,2	421,4	411,0	392,4
120°	595,9	519,3	478,9	449,4	420,3	397,7	374,4
135°	697,6	565,5	508,4	474,4	448,6	423,6	366,2
150°	835,3	661,1	562,8	510,6	477,5	452,8	407,1
Run VMG	964,5	763,4	646,9	575,1	525,0	490,5	443,1

Certificate
Number **X350D**
ORC Ref **N/A**
Issued On **25.2.2008**
VPP Ver. **1.02**
Valid until **1.1.2008**

Crew Weight	
Declared	640 kg
Default*	645 kg
Double Handed ToD	605,3
Double Handed ToT	0,9912

Sails Limitations	
Genoa	0
Jibs	5
Spinnakers	4
Spinnaker configuration	

Storm Sails Areas	
Heavy Weather Jib	28,66
Storm Jib	10,61
Storm Jib JL	9,47
Storm Trysail	12,22

Selected Courses							
Windward / Leeward	1001,4	804,8	705,2	649,8	614,7	591,7	565,6
Circular Random	819,1	665,4	584,4	538,2	510,0	491,3	467,0
Ocean for PCS	929,2	732,3	621,8	553,4	507,8	475,1	428,8
Non Spinnaker	899,2	720,7	624,4	568,2	533,7	511,4	484,1

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	43,1°	42,5°	39,1°	37,7°	37,1°	36,9°	37,1°
Beat VMG	3,61	4,43	4,87	5,10	5,24	5,31	5,33
52°	5,55	6,57	7,07	7,28	7,40	7,47	7,52
60°	5,96	6,82	7,34	7,53	7,65	7,72	7,80
75°	6,23	7,06	7,53	7,88	8,03	8,13	8,27
90°	6,44	7,35	7,75	7,95	8,22	8,51	8,72
110°	6,35	7,17	7,73	8,25	8,54	8,76	9,17
120°	6,04	6,93	7,52	8,01	8,57	9,05	9,62
135°	5,16	6,37	7,08	7,59	8,03	8,50	9,83
150°	4,31	5,45	6,40	7,05	7,54	7,95	8,84
Run VMG	3,73	4,72	5,56	6,26	6,86	7,34	8,12
Gybe Angles	142,5°	143,7°	154,0°	163,7°	168,9°	172,5°	172,9°

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



World Leader in Rating Technology

2008 IMS Measurement Certificate

BOAT	
Name	X-35 ONE DESIGN
Sail Nr	
Class	X-35 OD
GPH	601,8
Data in	meters/kilograms

RIG							
Forestay Tension	Aft	Spreaders	2				
Inner Forestay	None Fitted	Runners	0				
Carbon Mast	No	Jumpers	None				
Taper Hollows	No						
P	14,250	BAS	1,745	TL	1,230	BD	0,220
IG	14,500	FSP	0,068	J	4,185	BWT	
ISP	14,530	MDT1	0,125	SPL	4,180	SFJ	
SPS	2,600	MDL1	0,185	TPS		CPW	
MW	0,184	MDT2	0,122	E	4,900	MWT	156,00
GO	0,204	MDL2	0,140	BAL	0,152	MCG	4,600

INCLINING TEST AND FREEBOARDS			
Inclining Test		Current Inclining	
Flotation date	04.05.2006	SG	1,0250
FFM	1,321	FF	1,321
FAM	0,980	FA	0,980
SFFP	0,075	SAFP	10,275
W1	70,000	PD1	554,0
W2	70,000	PD2	558,9
W3	70,000	PD3	554,0
W4	70,000	PD4	552,5
WD	11,240	GSA	1,0
		RSA	1,0
		PLM	9000,0
Maximum beam station from stem			7,113
Righting Moment RM Measured / Default			111,7 / 113,7
Limit of positive stability			116,2
Stability Index			117,0

PROPELLER			
Installation	Strut Drive	PRD	0,420
Type	Folding	PBW	0,128
Twin Screw	No	PIPA	0,0033
ST1	0,042	ST3	0,182
ST2	0,178	ST4	0,112
		ST5	0,255
		EDL	2,390

SAILS			
JL	14,60	HB	0,21
LPG	4,45	MSW	19,0
JR		MGT	1,08
SL	14,36	MGU	1,88
SMW	8,05	MGM	3,19
SF	7,52	MGL	4,14
ASL			
AMG			
ASF			

HEAVY ITEMS	
Headliners	
Anchor Weight	C/R Adjustment 0,00150
Anchor LCG	

COMMENTS
O.D. TRIM PLUS TABLE AND CUSHIONS VALID ONLY IN CONJUNCTION WITH X-35 CLASS CERTIFICATE

SAILS RATED AREAS	
Jib / Genoa	33,75
Symmetric Spin.	106,87
Asymmetric Spin.	0,00
Code Zero	0,00
Mainsail	42,09

SAILS INVENTORY														
MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacturer	Material	Comment		
1	0,21	1,08	1,88	3,19	4,14	19,00	42,09				Unknown			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacturer	Material	Comment
1	0,10	0,65	1,21	2,29	3,34	4,45	14,60	110%	33,19	X-35	01.03.2007	Any	Kevlar	One Design Rule
SYMMETRIC SPINNAKERS														
Id	SL	SMW	SF	Area	Measurer	Meas.Date	Manufacturer	Material	Comment					
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Measurer	Meas.Date	Manufacturer	Material	Comment			

MEASUREMENT INVENTORY				
Measurer Gerd Kall tall				
Measurement Date 4.5.2006				
Comment				
Id	Item	Weight	Distance	Description
1	Anchor	10,0	6,25	Anchor 1
1	Chain	8,5	5,50	Warp
1	Tools	13,0	7,50	
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20C	
Id	Item	Weight	Description	
1	Deck Gear	9,2 0		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
1	Liquid Tank	fuel	st.stl	60,0	6,15	0,0 fuel
2	Liquid Tank	H2O	pvc	120,0	5,52	0,0 Water
3	Liquid Tank	gas	steel	2,0	9,45	0,0 LPG gas
Id	Item	Weight	Distance	Description		
1	Battery	46,8	4,85	120 Ah gel - services		
2	Battery	18,4	5,18	55 Ah - engine		
1	Miscellaneous	20,0		5,52 Table		
2	Miscellaneous	8,0		5,00 Safety Equipment		