

BOAT
Name PREMIUM Sail Nr EST 499

GPH
572,7

HULL	Length Overall	12,350 m
	Maximum Beam	3,637 m
	Displacement	7 242 kg
	Draft	2,514 m
	IMS Reg. Division	Cruiser/Racer
	Dynamic Allowance	0,308%
	Fwd Accommodation	Yes
	Hull Construction	Cored
	Carbon Rudder	No
	Trim Tab	No
	IMS L	11,437 VCGD -0,005 VCGM -0,040
	Sink	23,41 kg/mm Wetted Area 31,39 m²



2009
ORC International
Certificate

GENERAL
Class X-41
Designer JEPPESEN
Builder X YACHTS
Series 01.2006
Age 06.2007
Age Allowance 0,195%
Offset File X41.OFF - 15.03.2007 2:30:02
Measurement by Tetsmann - 02.06.2008

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	572,7			638,7		
Time On Time	1,0477			1,0568		
Performance Line	PLT	PLD		PLT	PLD	
	0,923	105,9		1,107	303,0	
Triple Number	Low	Medium	High	Low	Medium	High
	1,0249	1,3321	1,5000	0,7779	1,0686	1,2427

Rating Office
Estonian Yachting Union Veiko Rosme Regati 1, 11911, Tallinn Estonia

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	982,9	797,2	702,9	663,7	640,7	626,9	616,2
52°	636,6	524,6	479,1	460,6	450,5	444,6	439,9
60°	593,9	503,1	461,6	443,6	435,4	430,2	425,5
75°	557,2	487,7	449,3	428,5	415,3	408,8	401,5
90°	539,1	465,3	432,9	422,1	413,7	397,3	380,8
110°	545,6	475,7	439,2	413,4	393,5	383,8	366,6
120°	582,7	493,6	451,8	425,4	400,0	376,1	350,4
135°	679,7	542,5	483,2	448,0	425,0	403,1	355,1
150°	817,1	647,0	541,5	487,2	452,6	429,7	389,7
Run VMG	943,5	747,1	625,2	553,7	503,8	467,9	423,0

Certificate
Number EST499 ORC Ref EST00000484 Issued On 20.07.2009 VPP Ver. 1.11 Valid until 31.12.2009

Crew Weight
Declared 750 kg Default* 822 kg

Special Scoring
ToD ToT Double 575,2 1,0431 Non Spinnaker 618,6 0,9700

Selected Courses	980,8	783,7	675,9	616,2	579,0	553,5	524,9
Windward / Leeward	980,8	783,7	675,9	616,2	579,0	553,5	524,9
Circular Random	790,6	637,5	555,5	507,9	478,4	458,9	433,8
Ocean for PCS	845,5	667,1	568,1	507,8	468,2	439,6	398,3
Non Spinnaker	876,3	696,9	598,6	540,3	503,8	480,0	450,9

Sails Limitations
Genoa 0 Jibs 5 Spinnakers 4
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 39,52 Storm Jib (JL=11,12) 14,64 Storm Trysail 15,09

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	43,7°	44,2°	40,3°	38,3°	37,3°	36,7°	36,4°
Beat VMG	3,66	4,52	5,12	5,42	5,62	5,74	5,84
52°	5,66	6,86	7,51	7,82	7,99	8,10	8,18
60°	6,06	7,16	7,80	8,12	8,27	8,37	8,46
75°	6,46	7,38	8,01	8,40	8,67	8,81	8,97
90°	6,68	7,74	8,32	8,53	8,70	9,06	9,45
110°	6,60	7,57	8,20	8,71	9,15	9,38	9,82
120°	6,18	7,29	7,97	8,46	9,00	9,57	10,27
135°	5,30	6,64	7,45	8,04	8,47	8,93	10,14
150°	4,41	5,56	6,65	7,39	7,95	8,38	9,24
Run VMG	3,82	4,82	5,76	6,50	7,15	7,69	8,51
Gybe Angles	141,4°	144,2°	150,0°	160,5°	166,7°	170,8°	174,0°

Owner
OPTIGROUP TEAM OÜ Rävala pst.5 Tallinn, Estonia ESS Kalev JK
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name PREMIUM	Sail Nr EST 499
File Est0499.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 0		
Carbon Mast Yes	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 15,950	E 5,405	MDT1 0,130	TL 0,930
IG 17,040	J 4,900	MDL1 0,255	MWT 200,10
ISP 17,075	SFJ 0,300	MDT2 0,121	MCG 5,880
SPS	SPL 4,920	MDL2 0,200	CPW 3,050
BAS 1,870	TPS	MW 0,255	BD 0,270
BAL 0,152	FSP 0,076	GO 0,275	BWT

HEAVY ITEMS			
Bow Thruster No	Generator No	Air Condition No	
Windlass No	Jib Furler No	Desalinator No	
Heavy Deck No	Main Furler No		
Headliners No	Water Heater No		
Anchor Weight	Heavy Items Adjustment	0,0000	
Anchor LCG	Total Gyradius Adjustment	0,0285	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 25.06.2007		SG 1,0020
FFM 1,423	FF 1,432	SFFP 0,200
FAM 1,071	FA 1,077	SAFP 11,995
W1 88,000	PD1 202,0	WD 12,730
W2 88,000	PD2 204,0	GSA 12,6
W3 88,000	PD3 203,0	RSA 4298,7
W4 88,000	PD4 204,0	PLM 2005,
Maximum beam station from stem		8,278
RM Measured / Default		192,8 / 202,2
Limit of positive stability		121,3°
Stability Index		125,7
Freeboard at mast at 5,200		1,194

PROPELLER		
Installation Strut Drive	PRD 0,430	
Type Folding	PBW 0,125	
Twin Screw No	PIPA 0,0032	
ST1 0,060	ST3	ST5 0,325
ST2	ST4 0,092	EDL 1,540

WATER BALLAST	
N/A	

CENTERBOARD
N/A



World Leader in Rating Technology

2009
IMS Measurement
Certificate

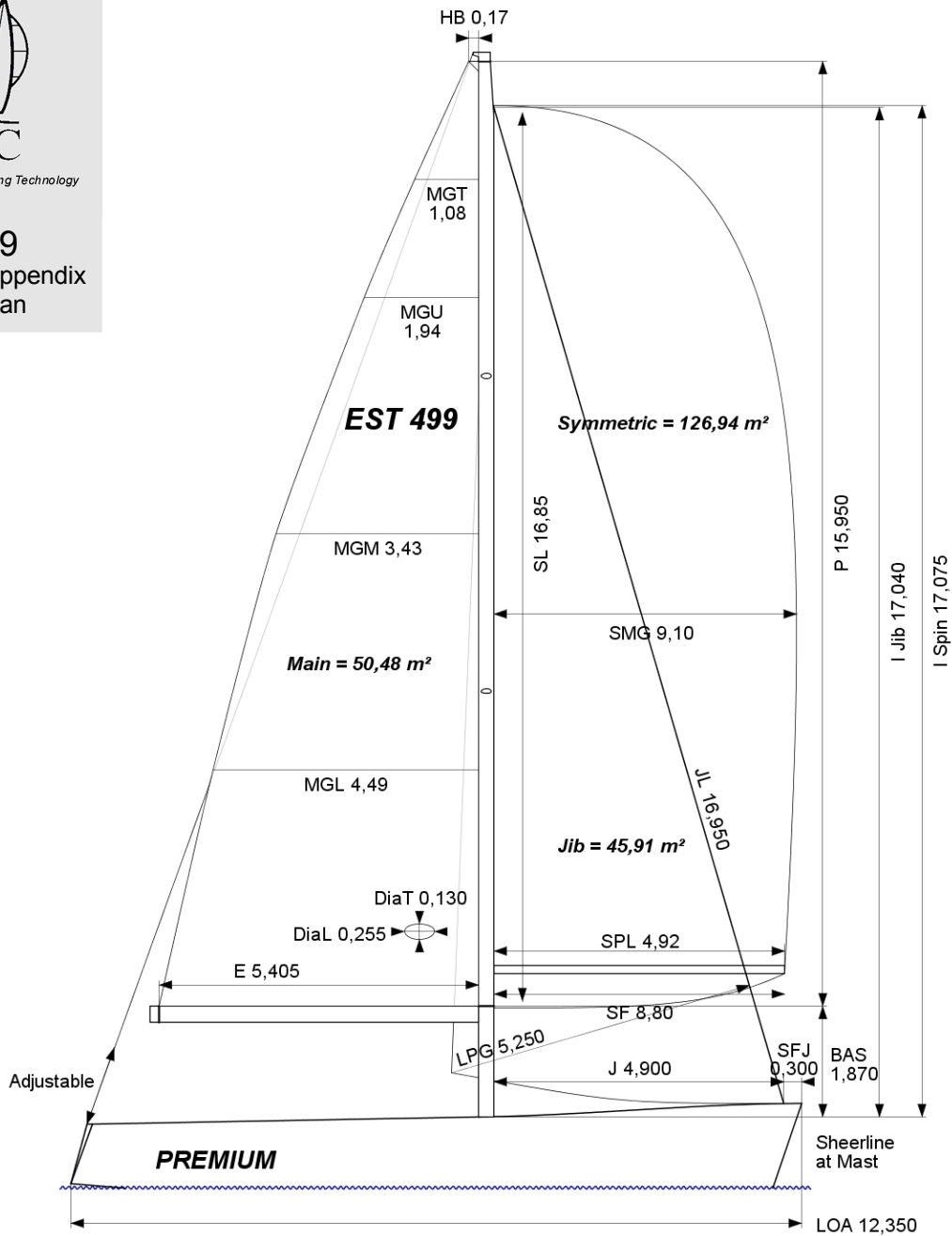
Certificate	
Number EST499	
ORC Ref EST00000484	
Issued On 20.07.2009	
VPP Ver. 1.11	
Valid until 31.12.2009	

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula	
	0,165	1,08	1,94	3,43	4,49	26,10	50,48	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,09	0,75	1,41	2,76	4,04	16,95	5,25	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF				Area	Formula	
	16,85	9,10	8,80				126,94	SL · (SF + 4·SMG) / 6	



World Leader in Rating Technology

2009
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
1	0,165	1,08	1,94	3,43	4,49	26,10	50,48	Tetsmann	02.06.2008		Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
1	0,09	0,75	1,41	2,76	4,04	5,25	16,95	107%	45,92				Unknown	
2	0,09	0,72	1,38	2,70	4,00	5,22	16,95	107%	45,34				Unknown	
3	0,09	0,69	1,32	2,88	3,87	5,09	16,95	104%	44,91				Unknown	
4	0,10	0,53	1,00	2,04	3,19	4,41	15,23	90%	32,36				Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
1	16,75	9,00	8,70	124,79		19.04.2007		Unknown	
2	16,85	9,10	8,80	126,94				Unknown	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Dat	Manufacturer	Material	Comment
----	-----	-----	-----	-----	-----	------	------	----------	----------	--------------	----------	---------