

BOAT
Name PÖHJAKONN
Sail Nr EST 333

GPH
639,7

HULL
Length Overall 10,720 m
Maximum Beam 3,466 m
Displacement 6 037 kg
Draft 2,065 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,459%
Fwd Accommodation Yes
Hull Construction Cored
Carbon Rudder No
Trim Tab No
IMS L 9,947 VCGD 0,116 VCGM 0,083
Sink 19,84 kg/mm Wetted Area 26,23 m²



2009
ORC International
Certificate

GENERAL
Class X-362sp
Designer Jeppesen
Builder X-Yachts
Series 10.1993
Age 03.2003
Age Allowance 1,040%
Offset File IX362SSK.OFF - 22.05.2003 17:37:46
Measurement by A.Tetsmann - 23.05.2007

SCORING OPTIONS		
	OFFSHORE	INSHORE
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time On Distance	639,7	710,0
Time On Time	0,9380	0,9507
Performance Line	PLT 0,833 PLD 110,7	PLT 0,982 PLD 294,3
Triple Number	Low 0,9161 Medium 1,1936 High 1,3430	Low 0,6966 Medium 0,9633 High 1,1263

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

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1072,9	878,7	777,4	732,7	706,2	689,6	674,4
52°	691,5	578,1	533,1	506,0	494,1	487,8	482,1
60°	645,5	554,7	513,3	488,9	480,4	475,5	470,0
75°	608,6	537,8	496,6	478,9	466,4	456,6	446,6
90°	604,4	526,8	486,7	469,3	457,0	449,6	427,9
110°	627,5	541,1	496,6	475,2	456,9	435,1	410,2
120°	673,0	560,7	511,6	482,3	465,3	444,1	403,9
135°	780,0	621,5	546,9	504,2	480,2	463,9	424,1
150°	935,8	730,4	609,3	546,1	506,0	481,8	447,1
Run VMG	1080,6	843,4	703,3	613,0	556,6	517,4	473,1

Certificate
Number EST333
ORC Ref EST00000186
Issued On 21.05.2009
VPP Ver. 1.11
Valid until 31.12.2009

Crew Weight
Declared 680 kg
Default* 692 kg

Special Scoring
ToD ToT
Double 642,1 0,9345
Non Spinnaker 675,2 0,8887

Selected Courses							
Windward / Leeward	1096,1	874,3	752,3	681,9	638,9	610,3	580,0
Circular Random	883,9	712,4	620,3	566,9	534,0	512,5	484,9
Ocean for PCS	944,9	745,2	634,4	567,3	523,7	493,1	449,4
Non Spinnaker	950,7	758,5	653,7	591,8	553,6	528,7	498,7

Sails Limitations
Genoas 1 Jibs 0 Spinnakers 3
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 27,63
Storm Jib (JL=9,30) 10,23
Storm Trysail 11,37

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	44,2°	43,6°	40,7°	38,7°	37,4°	36,7°	36,2°
Beat VMG	3,36	4,10	4,63	4,91	5,10	5,22	5,34
52°	5,21	6,23	6,75	7,11	7,29	7,38	7,47
60°	5,58	6,49	7,01	7,36	7,49	7,57	7,66
75°	5,92	6,69	7,25	7,52	7,72	7,89	8,06
90°	5,96	6,83	7,40	7,67	7,88	8,01	8,41
110°	5,74	6,65	7,25	7,58	7,88	8,27	8,78
120°	5,35	6,42	7,04	7,46	7,74	8,11	8,91
135°	4,62	5,79	6,58	7,14	7,50	7,76	8,49
150°	3,85	4,93	5,91	6,59	7,12	7,47	8,05
Run VMG	3,33	4,27	5,12	5,87	6,47	6,96	7,61
Gybe Angles	142,6°	147,9°	151,1°	163,3°	171,8°	172,4°	177,4°

Owner
Peeter Volkov
Ringi 46A
Pärnu, Estonia
Pärnu YC
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name PÖHJAKONN	Sail Nr EST 333
File Est0333.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 0		
Carbon Mast No	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 13,850	E 4,690	MDT1 0,112	TL 1,310
IG 14,195	J 3,830	MDL1 0,185	MWT 155,00
ISP 14,240	SFJ 0,350	MDT2 0,105	MCG 5,180
SPS 2,720	SPL 3,830	MDL2 0,172	CPW 2,120
BAS 1,650	TPS	MW 0,185	BD 0,185
BAL 0,152	FSP 0,066	GO 0,215	BWT

HEAVY ITEMS			
Bow Thruster No	Generator No	Air Condition Yes	
Windlass No	Jib Furler Yes	Desalinator No	
Heavy Deck No	Main Furler No		
Headliners No	Water Heater Yes		
Anchor Weight	Heavy Items Adjustment	0,0010	
Anchor LCG	Total Gyradius Adjustment	0,0350	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 20.05.2004	SG 1,0020	
FFM 1,198	FF 1,206	SFFP 0,332
FAM 0,952	FA 0,958	SAFP 9,573
W1 76,000	PD1 209,0	WD 10,600
W2 76,000	PD2 211,0	GSA 12,6
W3 76,000	PD3 207,0	RSA 4298,7
W4 76,000	PD4 209,0	PLM 2005,
Maximum beam station from stem	6,997	
RM Measured / Default	134,9 / 138,3	
Limit of positive stability	110,1°	
Stability Index	113,1	
Freeboard at mast at 4,180	1,074	

PROPELLER		
Installation Strut Drive	PRD 0,400	
Type Folding	PBW 0,118	
Twin Screw No	PIPA 0,0029	
ST1 0,040	ST3 0,182	ST5 0,281
ST2 0,182	ST4 0,096	EDL 1,900

WATER BALLAST	
N/A	

CENTERBOARD
N/A



World Leader in Rating Technology

2009
IMS Measurement
Certificate

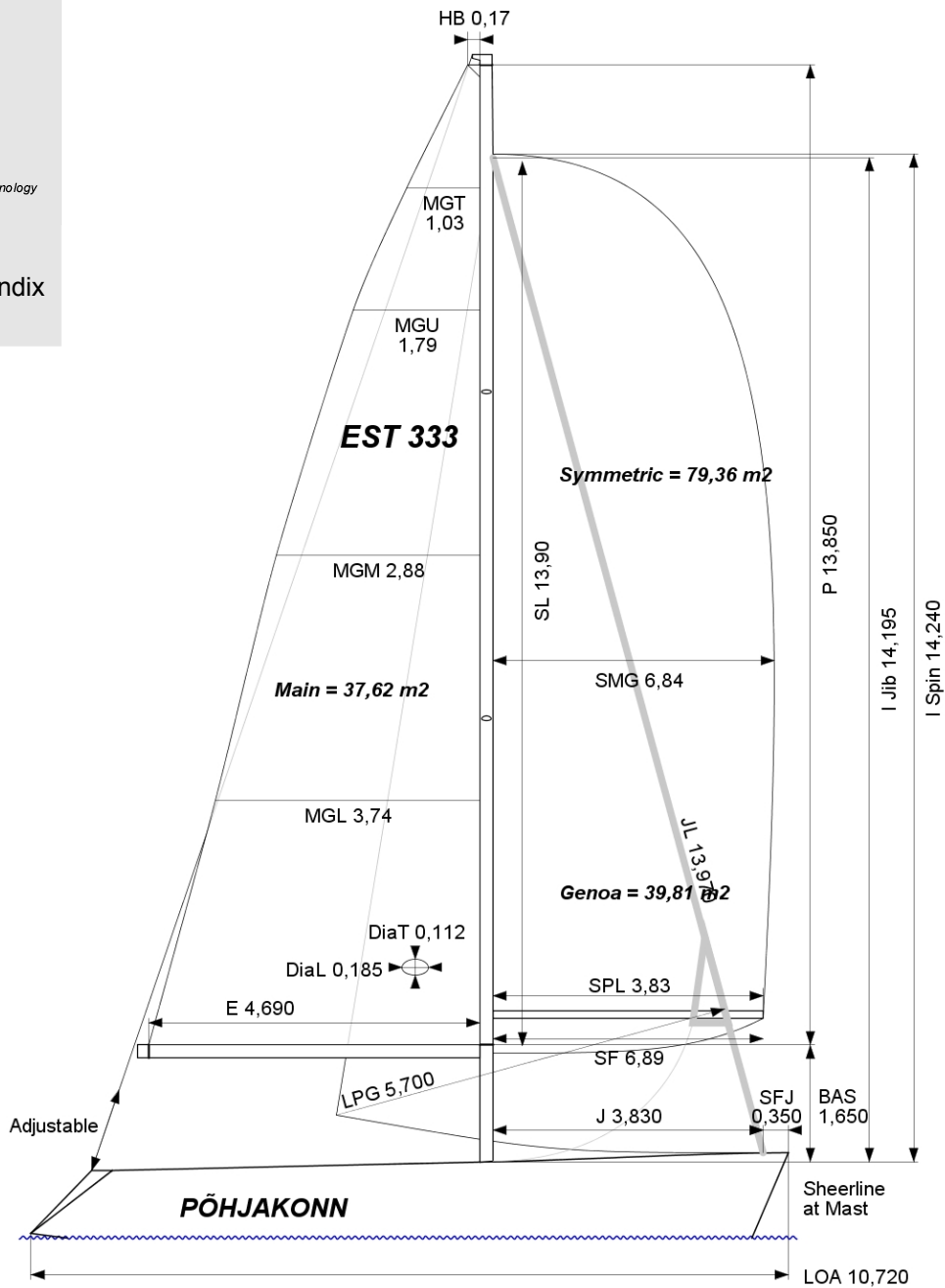
Certificate	
Number EST333	
ORC Ref EST00000186	
Issued On 21.05.2009	
VPP Ver. 1.11	
Valid until 31.12.2009	

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula	
	0,170	1,03	1,79	2,88	3,74	17,50	37,62	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,00	0,71	1,43	2,85	4,28	13,97	5,70	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF						
	13,90	6,84	6,89				79,36	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
ORC	0,170	1,03	1,79	2,88	3,74	17,50	37,62					* Copied from legacy *

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
ORC						5,70	13,97	149%	39,82					* Copied from legacy *

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
1	13,97	6,74	6,72	78,42	Tetsmann	23.04.2007		Unknown	
2	13,90	6,84	0,00	79,36				Unknown	

ASYMMETRIC SPINNAKERS

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