



World Leader in Rating Technology

2010 ORC Club Certificate

Rating Office

Estonian Yachting Union
Regati 1, 11911
Tallinn
Estonia

Certificate

Number **EST024**
Issued On **31.05.2010**
ORC Ref **EST00001032**
VPP Ver. **2010 1.11**
Valid until **31.12.2010**

Crew Weight

Declared **400 kg**
Default* **351 kg**
Non Manual Power **No**

Special Scoring

	ToD	ToT
Double	728,3	0,8238
Non Spinnaker	745,4	0,8049
N/S Perf. Line	116,4	0,725

Sails Limitations

Genoas **2** Spinnakers **3**
Jibs **2**

Spinnaker configuration

Symmetric: **Yes 28,37**
Asymmetric: **No**
Code Zero: **No**
Spin. Pole: **Yes**

Stability

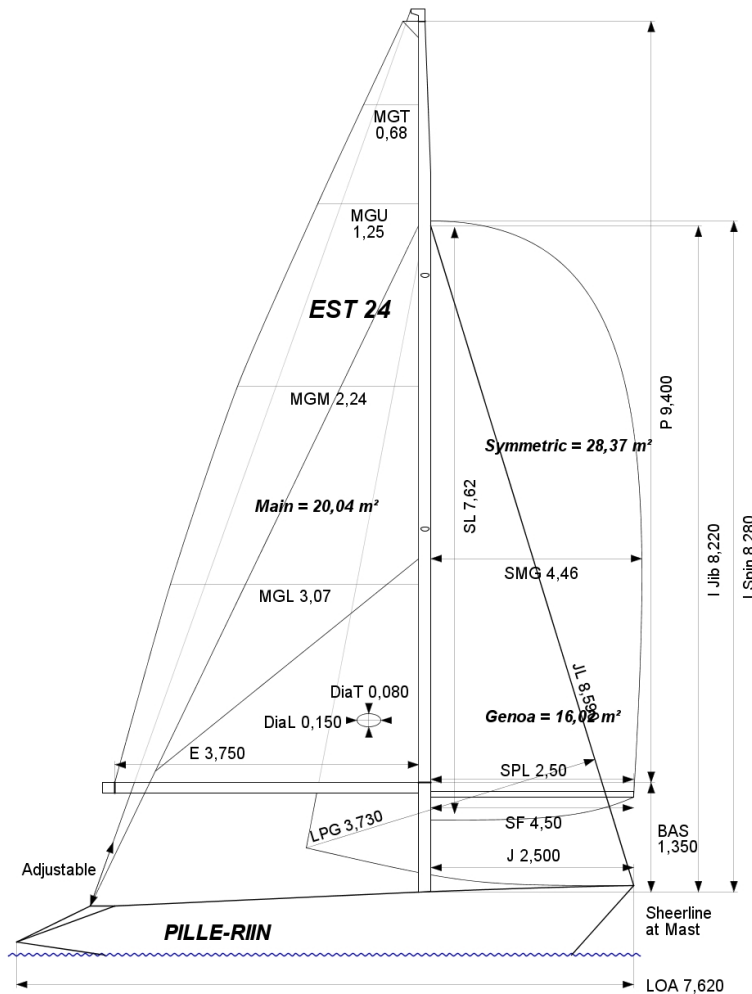
LPS (Estimated): **115,6°**
Stability Index: **108,0**
OSR Category: **N/A**

Owner

Elgunde OÜ
Valguse 3
Tallinn, Estonia
ESS Kalev JK

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

Signature



BOAT	GPH	HULL
Name PILLE-RIIN Sail Nr EST 24	725,2	Data File Est0024.dxt LOA 7,620 m Offset File Polari19.off MB 2,692 m Displacement 1 738 kg Draft 1,934 m
CLASS Class Polaris Designer SET Builder SET Series 06.1984 Age Date 01.1990 Age Allowance 0,975%		IMS Division Performance Dynamic All. 0,171% Fwd Accom. No Construction Solid Fiber No Aramid Core No Carbon Mast No Carbon Rudder No Anchor Wgt Anchor LCG
COMMENTS		IMS L 6,190 Wetted Area 11,05 m² VCGM -0,077
PROPELLER Type No Propeller		CENTERBOARD N/A
SCORING OPTIONS		
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	725,2	791,0
Time On Time	0,8274	0,8534
Performance Line	PLT 0,766 PLD 132,1	PLT 0,984 PLD 375,0
Triple Number	Low 0,8227 Medium 1,0437 High 1,1746	Low 0,6381 Medium 0,8659 High 0,9926



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ORC Club Certificate Appendix

BOAT	
Name	PILLE-RIIN
Certificate Number	EST024
Sail Nr	EST 24
Issued On	31.05.2010

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1138,0	937,6	855,6	811,8	786,5	770,5	765,5
52°	738,8	656,7	613,7	585,2	572,4	563,8	555,0
60°	709,1	639,1	599,8	569,2	553,9	545,4	536,1
75°	689,9	627,1	586,3	552,6	534,4	519,4	507,4
90°	690,0	620,2	579,0	547,0	519,6	502,3	484,2
110°	717,2	639,7	595,2	561,0	532,7	506,9	454,1
120°	760,9	660,6	610,1	573,6	543,9	518,4	466,2
135°	887,9	712,7	643,3	600,5	567,3	539,6	491,6
150°	1048,1	819,0	694,5	635,2	596,0	564,7	515,1
Run VMG	1210,3	945,5	780,4	691,4	636,6	598,9	543,0
Selected Courses							
Windward / Leeward	1195,8	957,7	831,6	761,6	719,8	692,2	661,0
Circular Random	988,3	803,3	704,7	647,0	610,7	586,0	552,9
Ocean for PCS	1052,9	837,9	719,1	646,6	598,5	563,9	514,2
Non Spinnaker	1025,6	828,9	723,5	661,9	623,3	597,2	563,2

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	43,0°	39,0°	37,1°	35,8°	34,7°	34,0°	34,3°
Beat VMG	3,16	3,84	4,21	4,43	4,58	4,67	4,70
52°	4,87	5,48	5,87	6,15	6,29	6,39	6,49
60°	5,08	5,63	6,00	6,33	6,50	6,60	6,72
75°	5,22	5,74	6,14	6,52	6,74	6,93	7,10
90°	5,22	5,80	6,22	6,58	6,93	7,17	7,43
110°	5,02	5,63	6,05	6,42	6,76	7,10	7,93
120°	4,73	5,45	5,90	6,28	6,62	6,95	7,72
135°	4,05	5,05	5,60	6,00	6,35	6,67	7,32
150°	3,43	4,40	5,18	5,67	6,04	6,38	6,99
Run VMG	2,97	3,81	4,61	5,21	5,65	6,01	6,63
Gybe Angles	146,6°	152,1°	162,9°	173,4°	176,0°	176,7°	177,0°