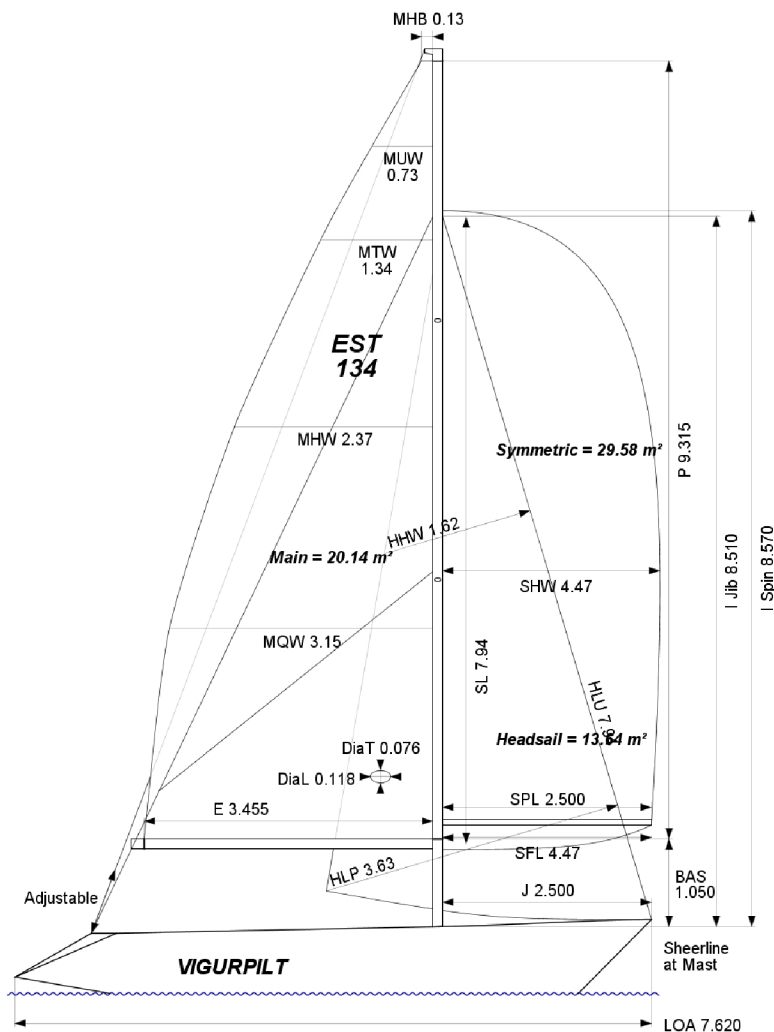




ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **008/20**
Issued On **05/06/2020**
ORC Ref **03880000JUE**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 310kg
Maximum **250kg**
Minimum* **165kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **740.5 0.8103**
Non Spin OSN **716.6 0.8373**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

Symmetric: **Yes 29.58**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.323

Stability (Estimated)

Limit Positive Stab.: **139.8°**
Stability Index: **131.8**

BOAT		GPH	HULL	
Name	VIGURPILT	717.2	Data File	EST134 LOA 7.620m
Sail Nr	est134		Offset File	POLARI90.OFF MB 2.692m
			Displacement	1,515kg Draft 1.581m
CLASS			IMS Division	Performance Dynamic All. 0.010%
			Plan Review	Construction Solid
			Fiber Rigging	No Aramid Core No
			Crew Arm Ex	Carbon Rudder No
				Light Stanchions No
			IMSL	5.974m VCGD -0.600m Sink 8.00kg/mm
			RL	6.682m VCGM -0.576m WS 10.69m²
			LSM0	5.712m Displacement/Length ratio 8.1292
COMMENTS			Water Ballast	0 Trim Tab No
			BLR Index	0.0000
PROPELLER			CENTERBOARD	
		Type No Propeller	N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	696.5			769.7		
Time on Time	0.8614			0.8770		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	812.6	638.6	571.0	1040.9	772.0	679.8
Time on Time	0.8307	1.0570	1.1822	0.6485	0.8743	0.9930

BOAT Name VIGURPILT Sail Nr est134 File EST134 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 05/06/2020 SG 1.0248 VCGDe -0.600 FFM 0.875 FF 0.875 SFFP 0.394 FAM 0.634 FA 0.634 SAFF 6.402 LCF from stem on CL / on sheer 3.987 / 4.191 Maximum beam station from stem 4.141 RM Measured 42.7kg·m RM Default 27.7kg·m Limit of positive stability / Stab.Index 139.8° / 131.8 Freeboard at mast at 2.500 0.806														
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 2 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 9.315 E 3.455 MDT1 0.076 MW IG 8.510 J 2.500 MDL1 0.118 GO ISP 8.570 SFJ MDT2 0.000 BD BAS 1.050 SPL 2.500 MDL2 0.000 MWT FSD TPS TL MCG																
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller														
COMMENTS		MOVABLE BALLAST N/A														
		CENTERBOARD N/A														
SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.73	1.34	2.37	3.15	20.15										
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.06	0.41	0.79	1.62	2.58	3.63	7.94	145%	13.64		No					
1	0.06	0.38	0.73	1.46	2.22	2.99	7.97	120%	11.83		No					
2	0.07	0.32	0.58	1.21	1.95	2.71	7.52	108%	9.70		No					
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	7.94	7.94	7.94	4.47	4.47	29.58										
2	7.56	7.56	7.56	4.39	4.40	27.67										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

Certificate
 Number **008/20**
 ORC Ref **03880000JUE**
 Issued On **05/06/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**



EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	VIGURPILT	Certificate Number	008/20
Sail Nr	est134	Issued On	05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1163.4	975.1	868.7	816.9	797.6	790.8	799.2
52°	770.4	659.8	616.5	594.0	579.0	571.0	566.9
60°	731.4	639.1	603.7	580.4	562.4	550.3	543.0
75°	703.7	625.7	592.5	566.5	544.1	527.5	509.8
90°	710.8	618.2	578.1	547.1	526.0	516.0	485.6
110°	720.5	618.5	576.5	541.6	513.2	488.0	453.0
120°	749.5	631.6	585.5	550.6	521.1	494.9	441.1
135°	835.9	683.0	612.6	575.4	542.4	514.7	462.6
150°	976.3	777.8	661.9	606.3	572.2	541.3	491.0
Run VMG	1127.3	897.5	757.5	664.9	610.1	576.2	520.4
Selected Courses							
Windward / Leeward	1145.4	936.3	813.1	740.9	703.9	683.5	659.8
Circular Random	977.9	794.5	696.7	639.9	604.8	581.7	551.6
Coastal / Long Distance	1143.6	882.4	740.8	660.1	616.9	583.4	524.2
Non Spinnaker	1018.9	823.6	718.7	657.4	619.5	594.7	563.7

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	41.6°	41.3°	39.0°	37.1°	36.6°	36.4°	37.5°
Beat VMG	3.09	3.69	4.14	4.41	4.51	4.55	4.50
52°	4.67	5.46	5.84	6.06	6.22	6.30	6.35
60°	4.92	5.63	5.96	6.20	6.40	6.54	6.63
75°	5.12	5.75	6.08	6.35	6.62	6.82	7.06
90°	5.06	5.82	6.23	6.58	6.84	6.98	7.41
110°	5.00	5.82	6.24	6.65	7.02	7.38	7.95
120°	4.80	5.70	6.15	6.54	6.91	7.27	8.16
135°	4.31	5.27	5.88	6.26	6.64	6.99	7.78
150°	3.69	4.63	5.44	5.94	6.29	6.65	7.33
Run VMG	3.19	4.01	4.75	5.41	5.90	6.25	6.92
Gybe Angles	148.5°	152.0°	156.0°	180.0°	180.0°	180.0°	180.0°