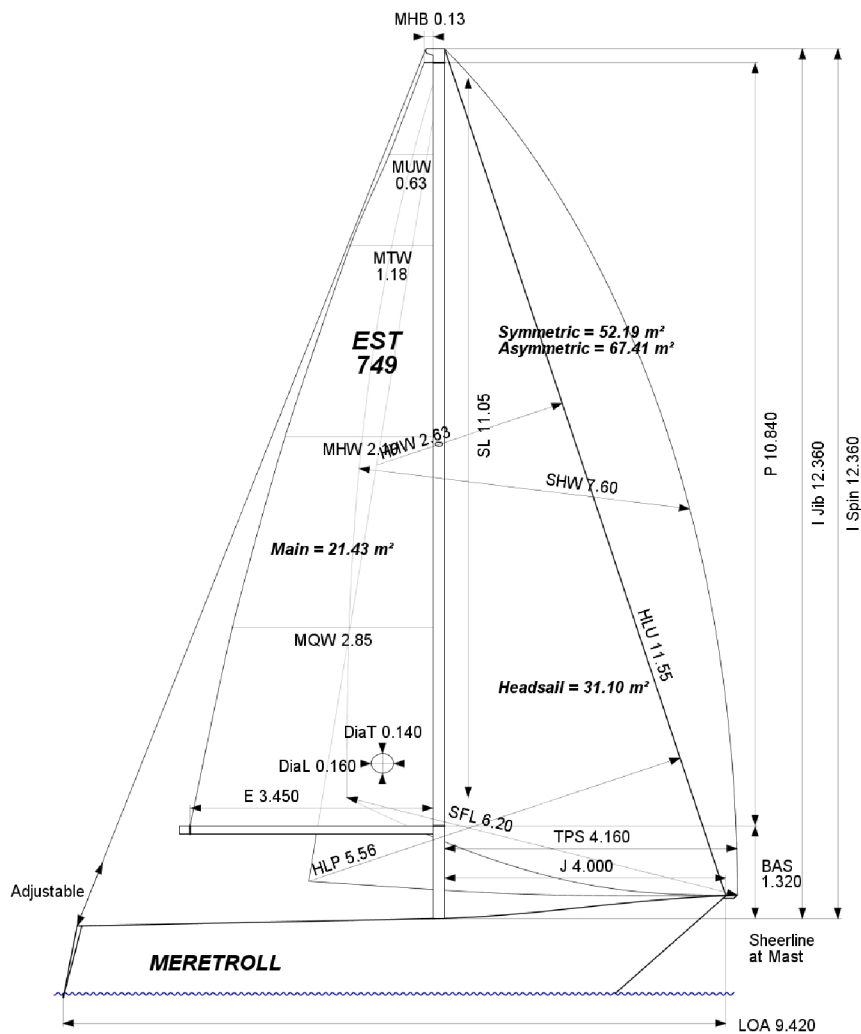




BOAT		GPH	HULL	
Name	Meretroll	744.7	Data File	EST749
Sail Nr	EST749		Offset File	CLHR312.off
CLASS			Displacement	4,900kg
Class	HR 312		LOA	9.420m
Designer	Olle Enderlein/C R		MB	3.090m
Builder	Hallberg Rassy		Draft	1.623m
Series	01/1979		IMS Division	Cruiser/Racer
Age Date	01/1979		Dynamic All.	0.673%
Age Allowance	0.487%		Plan Review	Solid
COMMENTS			Fiber Rigging	No
PROPELLER			Crew Arm Ex	No
Installation	Strut	PRD 0.380	Aramid Core	No
Type	Folding 2 blades	PIPA 0.0032	Carbon Rudder	No
SCORING OPTIONS			Light Stanchions	No
			IMSL	7.575m
			VCGD	-0.055m
			Sink	14.19kg/mm
			RL	5.817m
			VCGM	-0.022m
			WS	22.73m²
			LSM0	7.621m
			Displacement/Length ratio	11.0703
			Water Ballast	Trim Tab
			BLR Index	0.0000
			CENTERBOARD	
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	722.0			805.3		
Time on Time	0.8310			0.8382		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	861.1	657.3	584.5	1110.4	813.2	697.5
Time on Time	0.7839	1.0269	1.1548	0.6079	0.8301	0.9678



Rating Office
Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



Certificate
Number **119/20**
Issued On **20/07/2020**
ORC Ref **03880000MQK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **467kg**
Maximum **550kg**
Minimum* **413kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **778.5 0.7707**
Non Spin OSN **751.3 0.7987**

Sails Limitations
Headsails **5** Spinnakers **4**

Asymmetric on centerline
Spinnaker configuration
Symmetric: **Yes 59.24**
Asymmetric: **Yes 67.41**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **6.696**

Stability (Estimated)
Limit Positive Stab.: **120.8°**
Stability Index: **124.2**

BOAT Name Meretroll Sail Nr EST749 File EST749 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 20/07/2020 SG 1.0247 FFM 1.351 FF 1.351 SFFP 0.874 FAM 0.853 FA 0.853 SAFF 9.147 LCF from stem on CL / on sheer 5.641 / 5.861 Maximum beam station from stem 5.614 RM Measured 69.3kg·m RM Default 67.3kg·m Limit of positive stability / Stab.Index 120.8° / 124.2 Freeboard at mast at 4.000 1.067														
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 10.840 E 3.450 MDT1 0.140 MW 0.000 IG 12.360 J 4.000 MDL1 0.160 GO 0.000 ISP 12.360 SFJ 0.000 MDT2 0.000 BD 0.000 BAS 1.320 SPL 4.000 MDL2 0.000 MWT 0.000 FSD -3.000 TPS 4.160 TL 0.000 MCG 0.000		PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW Twin Screw PIPA 0.0032 ST1 0.048 ST3 0.170 ST5 0.300 ST2 0.170 ST4 0.098 EDL 0.700														
MIZZEN RIG AND SAILS N/A		MOVABLE BALLAST N/A														
COMMENTS 		CENTERBOARD N/A														
SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.63	1.18	2.10	2.85	21.43										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.03	0.63	1.25	2.63	4.06	5.56	11.55	139%	31.10		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.42	10.00	10.71	5.76	6.20	52.20				Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	11.05	11.05	11.05	7.60	6.20	67.41	asym				Unknown					



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2020
Measurements
Datasheet

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 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**



EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT

Name **Meretroll**
Sail Nr **EST749**

Certificate Number **119/20**
Issued On **20/07/2020**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1294.0	1077.1	956.3	875.5	841.3	827.0	825.1
52°	840.3	711.7	634.9	596.8	580.1	573.5	570.2
60°	792.8	673.4	609.2	580.5	565.3	557.4	552.6
75°	762.8	646.8	591.8	567.4	551.5	539.4	525.7
90°	762.8	632.7	575.0	551.0	539.8	532.1	506.9
110°	752.1	622.8	569.3	542.9	520.6	501.1	480.6
120°	778.7	641.3	576.6	547.8	524.2	501.5	467.5
135°	858.2	701.0	606.3	565.1	540.7	518.2	477.2
150°	1000.2	793.6	676.6	600.7	564.8	541.9	499.7
Run VMG	1155.0	915.2	778.0	681.6	611.3	571.9	527.5
Selected Courses							
Windward / Leeward	1224.5	996.1	867.2	778.6	726.3	699.4	676.3
Circular Random	1031.4	830.5	722.1	658.8	620.4	596.3	568.5
Coastal / Long Distance	1217.5	934.0	778.0	679.3	629.6	595.5	541.6
Non Spinnaker	1092.1	873.6	754.1	683.3	639.8	612.3	581.0

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	43.5°	42.0°	42.0°	41.6°	41.3°	40.9°	41.3°
Beat VMG	2.78	3.34	3.76	4.11	4.28	4.35	4.36
52°	4.28	5.06	5.67	6.03	6.21	6.28	6.31
60°	4.54	5.35	5.91	6.20	6.37	6.46	6.51
75°	4.72	5.57	6.08	6.34	6.53	6.67	6.85
90°	4.72	5.69	6.26	6.53	6.67	6.77	7.10
110°	4.79	5.78	6.32	6.63	6.92	7.18	7.49
120°	4.62	5.61	6.24	6.57	6.87	7.18	7.70
135°	4.19	5.14	5.94	6.37	6.66	6.95	7.54
150°	3.60	4.54	5.32	5.99	6.37	6.64	7.20
Run VMG	3.12	3.93	4.63	5.28	5.89	6.30	6.82
Gybe Angles	148.0°	152.0°	154.5°	160.0°	180.0°	180.0°	180.0°