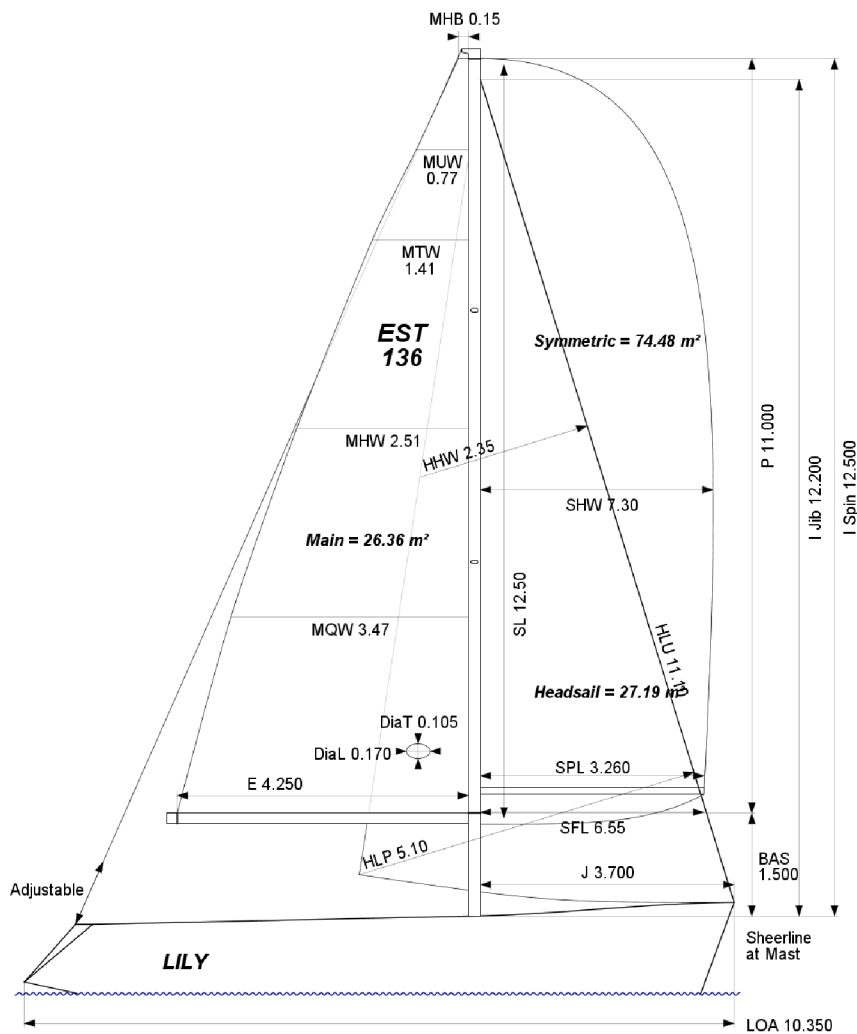




BOAT		GPH		HULL			
Name	LILY	689.2	Data File	EST136	LOA	10.350m	
Sail Nr	EST136		Offset File	BAVA34.OFF	MB	3.514m	
			Displacement	5,357kg	Draft	1.836m	
CLASS			IMS Division	Cruiser/Racer	Dynamic All.	0.391%	
	Class	BAVARIA34 AC	Plan Review		Construction	Cored	
	Designer		Fiber Rigging	No	Aramid Core	No	
	Builder		Crew Arm Ex		Carbon Rudder	No	
	Series	01/1999			Light Stanchions	No	
	Age Date	01/2001	IMSL	9.298m	VCGD	0.050m Sink	18.67kg/mm
	Age Allowance	0.487%	RL	6.584m	VCGM	0.008m WS	24.25m
COMMENTS			LSM0	9.207m	Displacement/Length ratio		6.863%
5357			Water Ballast		Trim Tab	No	
			BLR Index	0.0000			
PROPELLER			CENTERBOARD				
Installation	Strut	PRD	0.380				
Type	Folding 2 blades	PIPA	0.0006				
			N/A				

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	667.0			745.4		
Time on Time	0.8996			0.9056		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	812.4	606.1	523.4	1055.7	757.3	627.4
Time on Time	0.8309	1.1136	1.2897	0.6394	0.8913	1.0759



2020 ORC Club Certificate

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



Certificate
Number 147/20
Issued On 14/08/2020
ORC Ref 038800000IF
VPP Ver. 2020 1.02
Valid until 31/12/2020

Crew Weight
Default 612kg
Maximum 450kg
Minimum* 338kg
*when applied by the NoR and SI
Non Manual Pwr No

Special Scoring
ToD ToT
Non Spin GPH 728.7 0.8234
Non Spin OSN 702.7 0.8538

Sails Limitations
Headsails 5 Spinnakers 4
Woven Polyester

Spinnaker configuration
Symmetric: Yes 74.48
Asymmetric: No
Flying H/S: No
Spin. Pole: Yes

Class Division Length
CDL = 7.938

Stability (Estimated)
Limit Positive Stab.: 116.5°
Stability Index: 117.1

BOAT Name LILY Sail Nr EST136 File EST136 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 14/08/2020 SG 1.0250 VCGDe 0.050 FFM 1.323 FF 1.323 SFFP 0.280 FAM 0.994 FA 0.994 SAFF 9.350 LCF from stem on CL / on sheer 5.509 / 5.780 Maximum beam station from stem 6.400 RM Measured 134.5kg·m RM Default 119.1kg·m Limit of positive stability / Stab.Index 116.5° / 117.1 Freeboard at mast at 3.700 1.130	
RIG Forestay Tension Aft Spreaders 2 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 11.000 E 4.250 MDT1 0.105 MW 0.170 IG 12.200 J 3.700 MDL1 0.170 GO 0.170 ISP 12.500 SFJ 0.000 MDT2 0.105 BD 0.150 BAS 1.500 SPL 3.260 MDL2 0.170 MWT FSD 0.030 TPS TL 0.000 MCG			
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW Twin Screw No PIPA 0.0006 ST1 ST3 ST5 ST2 ST4 EDL	
COMMENTS 5357		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	0.15	0.77	1.41	2.51	3.47	26.36										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.60	1.14	2.35	3.68	5.10	11.10	138%	27.19		No					
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	12.50	12.50	12.50	7.30	6.55	74.48										
1	11.30	11.30	11.30	6.66	5.80	61.10										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


ORC
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2020
Measurements
Datasheet

Certificate
 Number **147/20**
 ORC Ref **038800000IF**
 Issued On **14/08/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**


EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	LILY	Certificate Number	147/20
Sail Nr	EST136	Issued On	14/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1255.0	1030.5	908.4	822.9	762.6	733.6	725.5
52°	803.3	672.8	597.2	550.0	525.0	511.9	504.6
60°	751.9	634.9	566.4	530.5	511.0	498.8	488.5
75°	716.6	605.9	544.9	516.0	498.8	485.3	464.5
90°	716.9	591.6	526.5	499.0	484.9	477.8	453.6
110°	698.8	574.6	516.8	489.8	468.1	448.2	424.9
120°	718.5	588.2	523.0	493.7	471.0	448.7	411.3
135°	790.2	642.6	551.8	510.2	486.2	464.2	422.3
150°	938.3	739.6	622.6	547.4	510.6	488.1	447.4
Run VMG	1083.5	854.0	718.5	626.6	565.8	523.1	478.1
Selected Courses							
Windward / Leeward	1169.2	942.3	813.5	724.7	664.2	628.4	601.8
Circular Random	968.8	774.8	667.9	603.6	562.8	536.1	505.0
Coastal / Long Distance	1160.7	881.5	726.2	626.5	570.4	533.4	480.8
Non Spinnaker	1038.8	824.7	705.4	632.6	586.0	555.3	519.5

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	45.0°	43.5°	42.8°	42.2°	40.9°	40.1°	40.5°
Beat VMG	2.87	3.49	3.96	4.37	4.72	4.91	4.96
52°	4.48	5.35	6.03	6.55	6.86	7.03	7.13
60°	4.79	5.67	6.36	6.79	7.05	7.22	7.37
75°	5.02	5.94	6.61	6.98	7.22	7.42	7.75
90°	5.02	6.09	6.84	7.21	7.42	7.53	7.94
110°	5.15	6.27	6.97	7.35	7.69	8.03	8.47
120°	5.01	6.12	6.88	7.29	7.64	8.02	8.75
135°	4.56	5.60	6.52	7.06	7.40	7.76	8.52
150°	3.84	4.87	5.78	6.58	7.05	7.38	8.05
Run VMG	3.32	4.22	5.01	5.75	6.36	6.88	7.53
Gybe Angles	146.5°	150.0°	151.0°	155.5°	172.0°	180.0°	180.0°