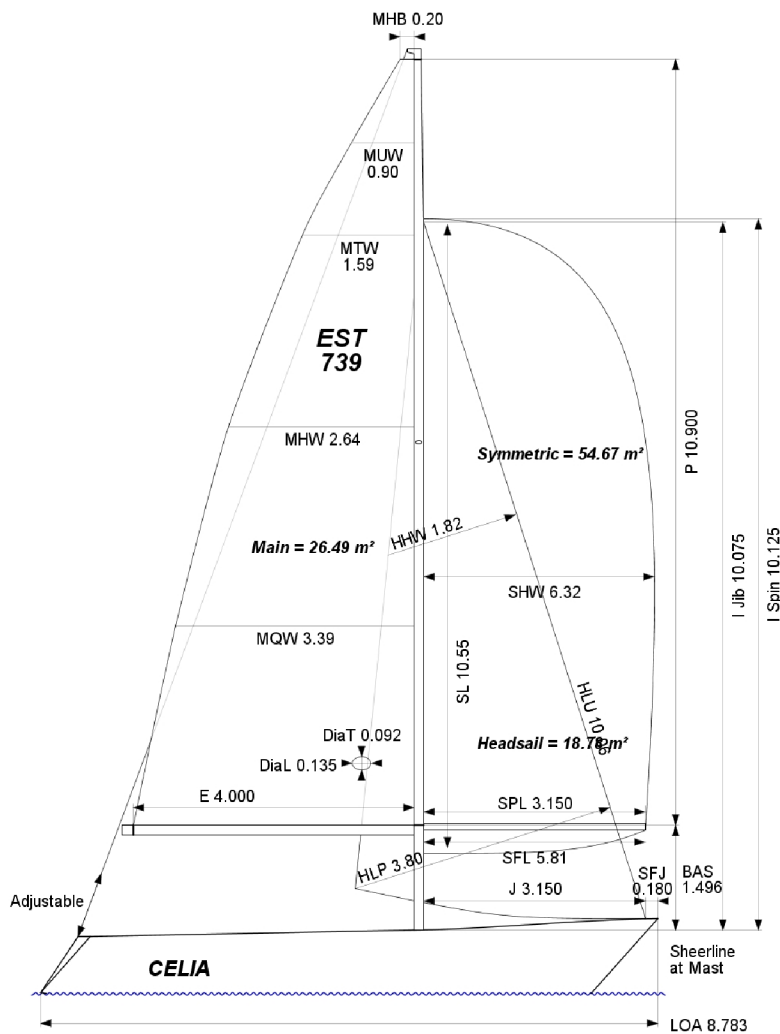




BOAT		GPH		HULL			
Name	Celia	697.4		Data File	EST739	LOA	8.783m
Sail Nr	EST-739		Offset File	G1057.bof	MB	2.514m	
				Displacement	2,794kg	Draft	1.538m
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0.071%
	Class	Inferno 29		Plan Review		Construction	Cored
	Designer	H.Södergren		Fiber Rigging	No	Aramid Core	No
	Builder			Crew Arm Ex		Carbon Rudder	No
	Series	03/1979				Light Stanchions	No
	Age Date	01/1982		IMSL	7.611m	VCGD	-0.101m Sink 11.61kg/mm
	Age Allowance	0.487%		RL	6.639m	VCGM	-0.074m WS 15.59m
COMMENTS				LSM0	7.558m	Displacement/Length ratio 6.4715	
				Water Ballast	0	Trim Tab	No
				BLR Index	0.0000		
PROPELLER			CENTERBOARD				
Installation	Shaft exposed	PRD	0.330				
Type	Folding 2 blades	PIPA	0.0053	N/A			

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	679.7			756.0		
Time on Time	0.8827			0.8929		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	789.2	619.8	561.8	1021.2	755.9	669.0
Time on Time	0.8553	1.0891	1.2014	0.6610	0.8930	1.0089



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



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

Crew Weight
 Default **462kg**
 Maximum **462kg**
 Minimum* **347kg**
 *when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **727.4 0.8249**
 Non Spin OSN **705.6 0.8503**

Sails Limitations
 Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration
 Symmetric: **Yes 54.67**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
CDL = 7.125

Stability (Estimated)
 Limit Positive Stab.: **120.7°**
 Stability Index: **123.3**

BOAT Name Celia Sail Nr EST-739 File EST739 Data in meters/kilograms										INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 05/06/2020 SG 1.0233 FFM 1.052 FF 1.053 SFFP 0.482 FAM 0.775 FA 0.775 SAFF 8.072 LCF from stem on CL / on sheer 5.049 / 5.208 Maximum beam station from stem 5.025 RM Measured 44.2kg·m RM Default 42.9kg·m Limit of positive stability / Stab.Index 120.7° / 123.3 Freeboard at mast at 3.330 0.901									
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 10.900 E 4.000 MDT1 0.092 MW 0.138 IG 10.075 J 3.150 MDL1 0.135 GO 0.147 ISP 10.125 SFJ 0.180 MDT2 0.082 BD BAS 1.496 SPL 3.150 MDL2 0.094 MWT FSD TPS TL 2.310 MCG										PROPELLER Installation Shaft exposed PRD 0.330 Type Folding 2 blades PBW Twin Screw No PIPA 0.0053 PSA 14.000 PHL 0.116 ST3 0.100 ESL 0.710 PSD 0.025 ST1 0.023 ST4 0.049 PHD 0.650 ST2 0.086 ST5 0.100									
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	0.20	0.90	1.59	2.64	3.39	26.50	EST8	17/04/2020		Dacron									
HEADSAILS (4)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
5	0.06	0.46	0.90	1.82	2.81	3.80	10.06	121%	18.78		No	EST8	30/05/2020		Nylon	Unknow			
2	0.06	0.37	0.73	1.54	2.46	3.44	10.10	109%	16.44		No	EST8	30/05/2020		Unknown	Unknow			
3	0.06	0.43	0.83	1.60	2.37	3.12	10.04	99%	15.99	N	No	EST8	30/05/2020		Unknown	Unknow			
4	0.07	0.34	0.64	1.33	2.07	2.84	8.74	90%	12.04	N	No	EST8	30/05/2020		Unknown	Unknow			
SYMMETRIC SPINNAKERS (3)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	10.55	10.55	10.55	6.32	5.81	54.67	EST8	11/05/2020		Nylon									
3	10.04	10.04	10.04	6.06	5.60	49.94				Unknown									
2	9.91	9.91	9.91	5.72	5.26	46.48	EST8	30/05/2020		Unknown									
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							



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2020
Measurements
Datasheet

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ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT

Name	Celia	Certificate Number	033/20
Sail Nr	EST-739	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	1163.6	969.3	861.6	819.5	805.8	802.3	800.6
52°	760.7	644.8	592.8	574.9	568.8	566.2	562.0
60°	718.8	616.8	577.5	561.0	553.8	550.3	546.9
75°	690.3	598.4	565.9	547.1	533.9	525.6	519.7
90°	688.9	588.5	555.2	541.4	524.3	507.8	487.5
110°	684.4	581.7	546.1	519.2	496.6	483.5	463.4
120°	708.2	592.2	551.4	522.6	494.1	469.8	442.8
135°	787.0	645.1	572.2	541.4	513.0	484.3	433.6
150°	941.7	747.7	628.9	568.9	540.6	514.1	462.0
Run VMG	1087.4	864.3	725.0	633.4	577.4	547.3	496.1
Selected Courses							
Windward / Leeward	1125.5	916.8	793.3	726.5	691.6	674.8	648.4
Circular Random	950.5	771.4	676.9	623.5	591.7	571.3	545.1
Coastal / Long Distance	1121.7	860.7	718.3	642.9	603.6	572.5	520.8
Non Spinnaker	1004.4	809.2	705.1	645.6	610.1	587.6	559.6

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	42.8°	41.6°	40.9°	39.8°	39.0°	39.0°	39.8°
Beat VMG	3.09	3.71	4.18	4.39	4.47	4.49	4.50
52°	4.73	5.58	6.07	6.26	6.33	6.36	6.41
60°	5.01	5.84	6.23	6.42	6.50	6.54	6.58
75°	5.21	6.02	6.36	6.58	6.74	6.85	6.93
90°	5.23	6.12	6.48	6.65	6.87	7.09	7.38
110°	5.26	6.19	6.59	6.93	7.25	7.45	7.77
120°	5.08	6.08	6.53	6.89	7.29	7.66	8.13
135°	4.57	5.58	6.29	6.65	7.02	7.43	8.30
150°	3.82	4.81	5.72	6.33	6.66	7.00	7.79
Run VMG	3.31	4.17	4.97	5.68	6.24	6.58	7.26
Gybe Angles	147.0°	152.0°	151.0°	164.0°	180.0°	180.0°	180.0°