

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est738**
Issued On **5/28/2020**
ORC Ref **03580000J2W**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 452kg
Maximum **449kg**
Minimum* **337kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **804.5 0.7458**
Non Spin OSN **775.7 0.7735**

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration

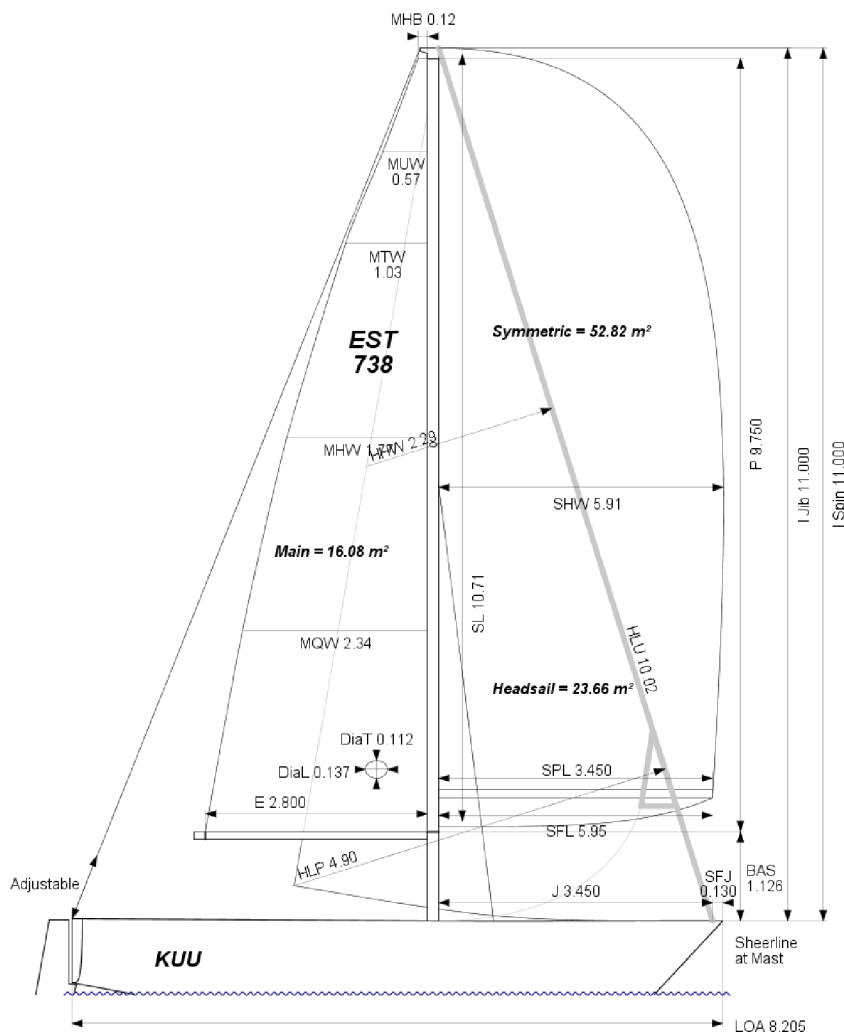
Symmetric: **Yes 52.82**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.324

Stability (Estimated)

Limit Positive Stab.: **114.6°**
Stability Index: **115.9**



BOAT		GPH	HULL			
Name	KUU	765.6	Data File	Est0738	LOA	8.205m
Sail Nr	EST 738		Offset File	G1091.BOF	MB	2.938m
CLASS			Displacement	3,680kg	Draft	1.577m
Class	Maxi 84		IMS Division	Cruiser/Racer	Dynamic All.	0.598%
Designer	Pelle Peterson		Plan Review		Construction	Solid
Builder	Maxi Yachts		Fiber Rigging	No	Aramid Core	No
Series	07/1979		Crew Arm Ex		Carbon Rudder	No
Age Date					Light Stanchions	No
Age Allowance	0.487%		IMSL	7.275m	VCGD	0.055m Sink 12.17kg/mm
COMMENTS			RL	5.372m	VCGM	0.052m WS 18.15m²
			LSM0	7.451m	Displacement/Length ratio	
			Water Ballast		Trim Tab	No
			BLR Index	0.0000		
PROPELLER			CENTERBOARD			
Installation	Strut	PRD 0.335				
Type	Folding 2 blades	PBW 0.095				
		PIPA 0.0027				
			N/A			

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	741.8			824.6		
Time on Time	0.8089			0.8186		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	887.6	676.4	595.0	1141.2	835.4	706.4
Time on Time	0.7605	0.9979	1.1345	0.5915	0.8080	0.9555

BOAT										INCLINING TEST AND FREEBOARDS												
Name KUU					Sail Nr EST 738					Inclining Test Club Estimated VCG												
File Est0738					Data in meters/kilograms					Flotation date 22/11/2019 SG												
RIG Forestay Tension Aft Spreaders 1 Inner Stay Fixed Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										FFM FF 0.928 SFFP 0.870 FAM FA 0.946 SAFP 8.114 LCF from stem on CL / on sheer 4.773 / 4.972 Maximum beam station from stem 4.861 RM Measured 51.7kg·m RM Default 50.2kg·m Limit of positive stability / Stab.Index 114.6° / 115.9 Freeboard at mast at 3.580 0.919												
MIZZEN RIG AND SAILS N/A										PROPELLER Installation Strut PRD 0.335 Type Folding 2 blades PBW 0.095 Twin Screw No PIPA 0.0027 ST1 0.040 ST3 0.198 ST5 0.205 ST2 0.190 ST4 0.095 EDL 99.000												
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	0.12	0.57	1.03	1.77	2.34	16.09				Dacron												
HEADSAILS (1)																						
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment						
1	0.04	0.53	1.08	2.29	3.58	4.90	10.02	142%	23.66	No	EST 7		20/04/2020		Dacron							
SYMMETRIC SPINNAKERS (1)																						
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment											
1	10.71	10.71	10.71	5.91	5.95	52.82									Unknown							
ASYMMETRIC SPINNAKERS (0)																						
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment										



2020 Measurements Datasheet

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ORC Club Certificate Appendix

BOAT			
Name	KUU	Certificate Number	Est738
Sail Nr	EST 738	Issued On	5/28/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1349.5	1123.8	999.9	911.1	854.2	830.2	828.1
52°	873.9	739.6	660.2	617.6	595.6	584.0	579.2
60°	825.3	700.1	631.2	599.5	581.4	569.5	561.3
75°	793.7	674.0	611.9	585.5	568.5	554.5	534.2
90°	793.4	656.8	593.7	567.3	554.0	546.2	520.7
110°	775.4	641.3	585.0	557.5	534.1	513.2	491.3
120°	796.2	656.7	591.3	561.7	537.8	514.1	477.5
135°	869.9	713.9	619.4	578.8	553.8	530.0	486.3
150°	1008.6	804.2	686.9	611.8	577.4	554.3	510.5
Run VMG	1164.6	927.0	789.2	692.0	622.7	584.8	539.9
Selected Courses							
Windward / Leeward	1257.0	1025.4	894.5	801.6	738.5	707.5	684.0
Circular Random	1062.5	855.3	742.6	676.0	634.6	608.0	577.6
Coastal / Long Distance	1247.8	961.2	802.4	699.8	643.1	606.3	551.7
Non Spinnaker	1132.1	904.8	779.5	704.3	657.0	626.6	591.9

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	44.3°	42.4°	42.2°	42.0°	40.5°	39.8°	39.8°
Beat VMG	2.67	3.20	3.60	3.95	4.21	4.34	4.35
52°	4.12	4.87	5.45	5.83	6.04	6.16	6.22
60°	4.36	5.14	5.70	6.00	6.19	6.32	6.41
75°	4.54	5.34	5.88	6.15	6.33	6.49	6.74
90°	4.54	5.48	6.06	6.35	6.50	6.59	6.91
110°	4.64	5.61	6.15	6.46	6.74	7.01	7.33
120°	4.52	5.48	6.09	6.41	6.69	7.00	7.54
135°	4.14	5.04	5.81	6.22	6.50	6.79	7.40
150°	3.57	4.48	5.24	5.88	6.23	6.49	7.05
Run VMG	3.09	3.88	4.56	5.20	5.78	6.16	6.67
Gybe Angles	148.0°	152.0°	154.0°	161.0°	180.0°	180.0°	180.0°