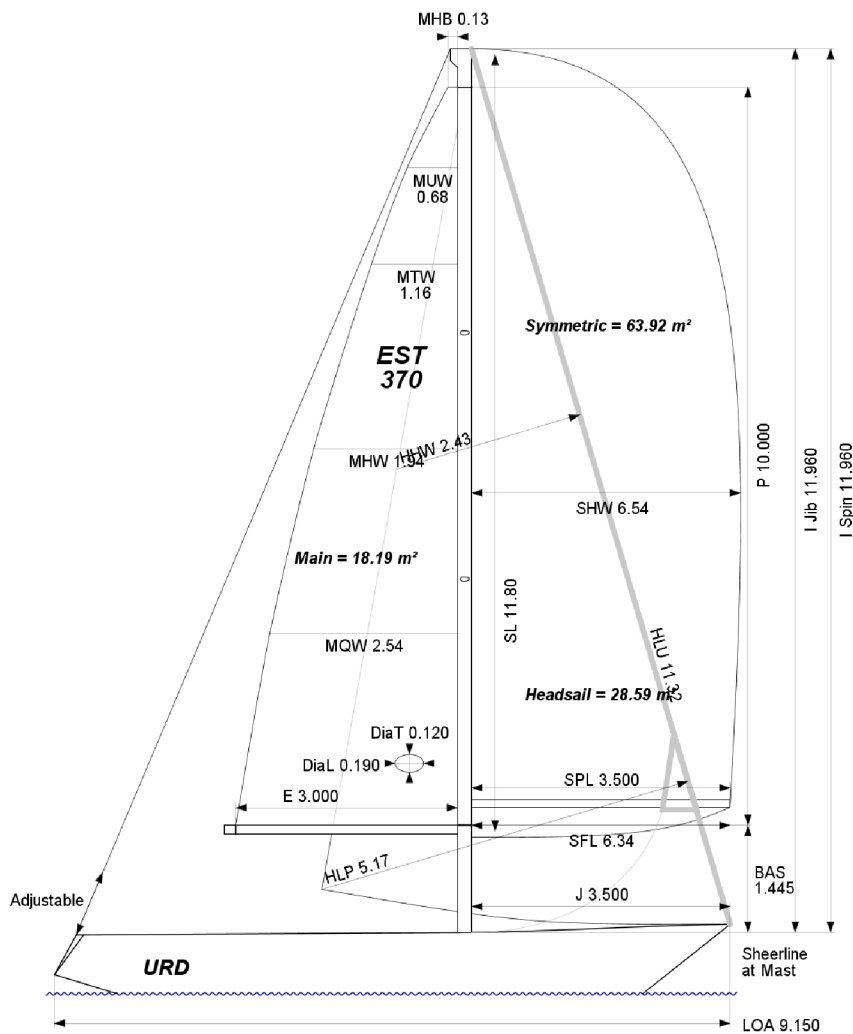




BOAT		GPH	HULL	
Name	URD	731.8	Data File	EST370
Sail Nr	EST370		LOA	9.150m
CLASS			Offset File	G1013.BOF
Class	COMFORT 30		Displacement	3,675kg
Designer	ALBINSSON KENNETH		Dynamic All.	0.518%
Builder	Comfortbatar		Plan Review	Construction Solid
Series	01/1974		Fiber Rigging	No
Age Date	01/1976		Crew Arm Ex	Aramid Core No
Age Allowance	0.487%			Carbon Rudder No
COMMENTS				Light Stanchions No
PROPELLER			IMSLS	7.183m
Installation	Shaft exposed	PRD 0.408	VCGD	-0.020m
Type	Folding 2 blades	PBW 0.100	Sink	11.86kg/mm
		PIPA 0.0049	RL	5.971m
			VCGM	0.053m
			WS	17.56m²
			LSM0	7.140m
			Displacement/Length ratio	10.0963
			Water Ballast	0
			Trim Tab	No
			BLR Index	0.0000
CENTERBOARD				
				N/A

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	711.1			792.1		
Time on Time	0.8437			0.8522		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	836.9	648.5	582.4	1074.5	796.6	694.4
Time on Time	0.8065	1.0408	1.1590	0.6282	0.8473	0.9720



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



Certificate
 Number 016/2
 Issued On 05/06/2020
 ORC Ref 03880000JW3
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 426kg
 Maximum 426kg
 Minimum* 320kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 767.3 0.7820
 Non Spin OSN 742.8 0.8077

Sails Limitations
 Headsails 1 Spinnakers 4
 Woven Polyester

Spinnaker configuration
 Symmetric: Yes 63.92
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 6.575

Stability (Estimated)
 Limit Positive Stab.: 109.9°
 Stability Index: 110.8

BOAT Name URD Sail Nr EST370 File EST370 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 05/06/2020 SG 1.0248 VCGDe -0.020 FFM 0.923 FF 0.923 SFFP 1.050 FAM 0.798 FA 0.798 SAFFP 8.747 LCF from stem on CL / on sheer 4.987 / 5.192 Maximum beam station from stem 5.364 RM Measured 50.4kg·m RM Default 53.1kg·m Limit of positive stability / Stab.Index 109.9° / 110.8 Freeboard at mast at 3.500 0.833														
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 10.000 E 3.000 MDT1 0.120 MW 0.190 IG 11.960 J 3.500 MDL1 0.190 GO 0.190 ISP 11.960 SFJ MDT2 0.120 BD 0.120 BAS 1.445 SPL 3.500 MDL2 0.190 MWT FSD 0.030 TPS TL 0.000 MCG																
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Shaft exposed PRD 0.408 Type Folding 2 blades PBW 0.100 Twin Screw No PIPA 0.0049 PSA 33.000 PHL 0.028 ST3 0.130 ESL 0.580 PSD 0.025 ST1 0.028 ST4 0.055 PHD 0.045 ST2 0.115 ST5 0.125														
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					
2	0.13	0.68	1.16	1.94	2.54	18.06	EST7	01/04/2020	Rolly Tasker	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.63	1.22	2.43	3.81	5.17	11.32	148%	28.59	No	EST7	01/04/2020	WB		Dacron	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	11.80	11.80	11.80	6.54	6.34	63.92	EST7	01/04/2020		Nylon	Roheline					
3	11.20	11.20	11.20	6.13	6.30	57.54	EST7	01/04/2020		Nylon	Valge					
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 **016/2**
 ORC Ref **03880000JW3**
 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	URD	Certificate Number	016/2
Sail Nr	EST370	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	1250.9	1051.6	933.4	864.1	838.0	826.9	830.2
52°	816.6	693.7	624.7	594.2	580.5	574.9	572.8
60°	771.8	656.4	602.9	578.6	565.0	557.7	553.9
75°	741.7	631.6	587.5	565.5	549.6	537.2	524.2
90°	750.2	630.3	577.2	557.1	544.6	528.7	504.0
110°	738.8	613.3	566.5	539.7	517.3	503.1	486.2
120°	759.6	625.1	571.2	542.7	517.3	495.4	469.8
135°	828.5	677.4	594.0	559.1	533.3	508.4	468.6
150°	958.7	769.7	654.8	589.3	558.5	534.7	490.8
Run VMG	1107.0	888.3	753.8	664.3	601.0	566.7	520.5
Selected Courses							
Windward / Leeward	1179.0	969.9	843.6	764.2	719.5	696.8	675.4
Circular Random	1004.5	812.7	710.1	651.0	615.4	593.2	567.8
Coastal / Long Distance	1171.8	910.0	760.2	671.2	625.9	592.2	540.9
Non Spinnaker	1068.0	857.8	743.7	676.9	636.0	610.2	580.6

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	43.1°	42.0°	42.0°	41.3°	40.7°	40.5°	41.3°
Beat VMG	2.88	3.42	3.86	4.17	4.30	4.35	4.34
52°	4.41	5.19	5.76	6.06	6.20	6.26	6.29
60°	4.66	5.48	5.97	6.22	6.37	6.45	6.50
75°	4.85	5.70	6.13	6.37	6.55	6.70	6.87
90°	4.80	5.71	6.24	6.46	6.61	6.81	7.14
110°	4.87	5.87	6.36	6.67	6.96	7.16	7.40
120°	4.74	5.76	6.30	6.63	6.96	7.27	7.66
135°	4.35	5.31	6.06	6.44	6.75	7.08	7.68
150°	3.76	4.68	5.50	6.11	6.45	6.73	7.34
Run VMG	3.25	4.05	4.78	5.42	5.99	6.35	6.92
Gybe Angles	148.0°	152.0°	152.0°	162.0°	180.0°	180.0°	180.0°