

GPH = 731.7 **CDL = 6.575**

BOAT

Class **COMFORT 30**
Designer **ALBINSSON KENNETH**
Builder **Comfortbatar**
Age Date **01/1976**
Series Date **01/1974**
Offset File **G1013.BOF**

HULL

Length Overall **9.150 m**
Maximum Beam **2.942 m**
Draft **1.580 m**
Displacement **3,675 kg**
DLR **10.0960**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.518%**
Age Allowance **0.487%**

PROPELLER

Installation **Shaft exposed**
Type **Folding 2 blades**
Diameter **0.408m**

CREW

Maximum weight **426 kg**
Minimum weight **320 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	18.06	18.48
Headsail Luffed	28.58	28.58
Headsail Flying		
Symmetric	63.92	63.92
Asymmetric		

SAIL LIMITATIONS

Headsails **1** * Woven polyester sails
Spinnakers **4**

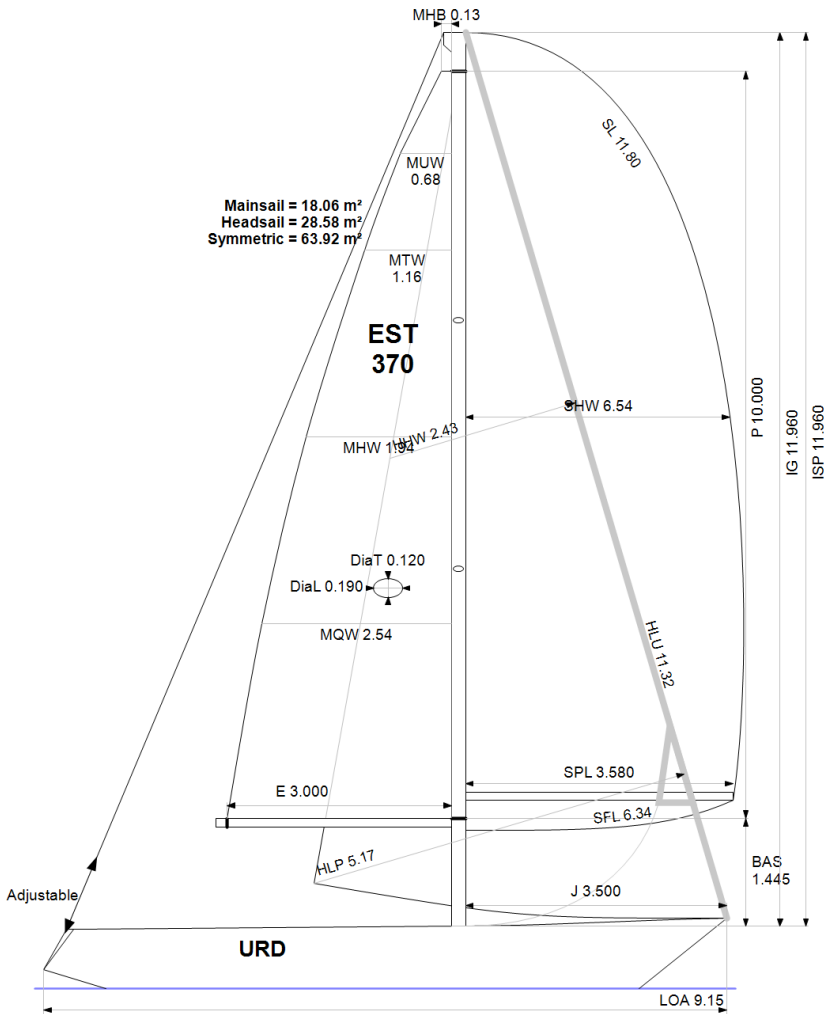
STABILITY

Righting Moment **50.4 kg·m**
Stability Index **N/A**

OWNER

Tarmo Karro

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

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	5.32	6.06	6.44	6.75	7.08	7.68
150°	3.76	4.68	5.50	6.11	6.45	6.74	7.34
Run VMG	3.26	4.06	4.78	5.42	5.99	6.36	6.92
Gybe Angles	148.0°	152.0°	152.0°	162.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
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	830.1
52°	816.6	693.7	624.7	594.2	580.5	574.8	572.7
60°	771.7	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°	759.4	625.1	571.2	542.7	517.3	495.4	469.8
135°	828.1	677.2	594.0	559.0	533.2	508.3	468.5
150°	957.8	769.0	654.3	589.1	558.3	534.5	490.6
Run VMG	1106.0	887.5	753.2	664.0	600.7	566.5	520.3
Selected Courses							
Windward / Leeward	1178.4	969.5	843.3	764.0	719.3	696.7	675.2
All purpose	914.4	759.1	675.3	628.9	601.7	585.3	566.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	801.0	0.7490
All purpose	652.6	0.9195

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	711.0	0.8439
Triple Number Coastal/Long Distance Low	836.8	0.7170
Triple Number Coastal/Long Distance Medium	648.4	0.9253
Triple Number Coastal/Long Distance High	582.3	1.0304
Triple Number Windward/Leeward Low	1073.9	0.5587
Triple Number Windward/Leeward Medium	796.4	0.7534
Triple Number Windward/Leeward High	694.3	0.8642

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1171.2	909.6	759.9	671.1	625.8	592.1	540.8

Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	COMFORT 30	LOA	9.150	VCGD	-0.020
Measurement		Max. Beam	2.942	VCGM	0.053
Measurer		Draft	1.580	RM Measured (kg·m)	50.4
HIN		Displacement	3,675	RM Default (kg·m)	53.1
Plan review		Wetted area	17.56	Limit of positive stability (°)	N/A
Hull construction	Solid	IMS L	7.183	Stability Index	N/A
Carbon Rudder	No	LSM0	7.140		
Light stanchions	No	Acc. length	9.150		
Trim tab	No	Sink (kg/mm)	11.86		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.408	PHD	0.045	ESL	0.580	ST2	0.115	ST4	0.055
Installation	Shaft exposed	PBW	0.100	PHL	0.028	ST1	0.028	ST3	0.130	ST5	0.125
Twin screw	No	PSD	0.025	PSA	33.000						
PIPA	0.0049										

RIG

Forestay tension	Aft	P	10.000	E	3.000
Inner stay	None Fitted	IG	11.960	J	3.500
Carbon mast	No	ISP	11.960	BAS	1.445
Headsail furler	Yes	MDT1	0.120	FSD	0.030
Mainsail furler	No	MDL1	0.190	SFJ	
Articulated bowsprit	No	MDT2	0.120	SPL	3.580
Non-circular rigging	No	MDL2	0.190	TPS	
Fiber rigging	No	TL	0.000	BD	0.120
Runners/Checkstays	0	MW	0.190	MWT	
Spreaders	2	GO	0.190	MCG	

FLOTATION AND STABILITY

Inclining Test	VCG entered directly	SFFP	1.050	SAFP	8.747
Flotation Date	05/06/2020	FFM	0.923	FAM	0.798
Measurer		FF	0.923	FA	0.798
Comment		LCFcl	4.987	LCFsh	5.192
		SG	1.0248	HBI	0.833

Club
Certificate
2021

Boat
URD
EST370

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia

Certificate number: 046/21

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Measurement	Manufacturer	Material	Comment
2	0.13	0.68	1.16	1.94	2.54	18.06	EST7	01/04/2020	Rolly Tasker	Dacron	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	Area	Measurer	Measurement	Manufacturer	Material	Comment
2	0.07	0.63	1.22	2.43	3.81	5.17	11.32	No	No	28.58	EST7	01/04/2020	WB	Dacron	

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Measurement	Manufacturer	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	57.53	EST7	01/04/2020		Nylon	Valge