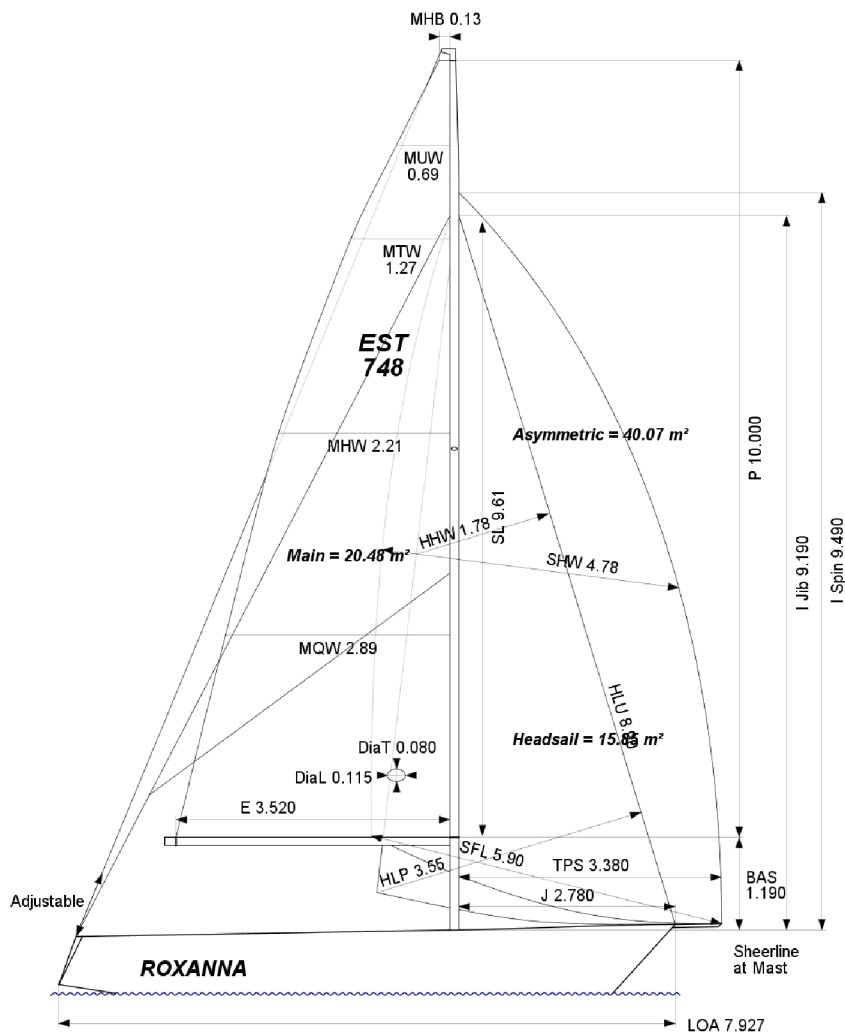




BOAT		GPH	HULL			
Name Roxanna Sail Nr EST 748		711.9	Data File EST748	LOA 7.927m		
			Offset File X79.OD.OFF	MB 2.844m		
			Displacement 1,783kg	Draft 1.372m		
			IMS Division Cruiser/Racer	Dynamic All. 0.200%		
CLASS			Plan Review	Construction Cored		
Class X-79			Fiber Rigging No	Aramid Core No		
Designer NIELS JEPPESEN			Crew Arm Ex	Carbon Rudder No		
Builder X-YACHTS				Light Stanchions No		
Series 01/1979			IMSL 6.771m	VCGD -0.050m		
Age Date 01/1981			RL 6.585m	VCGM 0.024m		
Age Allowance 0.487%			WS 13.10m²			
COMMENTS			LSM0 6.473m	Displacement/Length ratio 6.5741		
Lisatud 105,6 kg ballasti Kaal koos pāramootoriga 1783			Water Ballast	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Type No Propeller			N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	694.2			779.9		
Time on Time	0.8644			0.8655		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	807.0	633.5	567.0	1044.6	781.9	689.8
Time on Time	0.8364	1.0655	1.1904	0.6462	0.8633	0.9786



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



Certificate
 Number **072/20**
 Issued On **19/06/2020**
 ORC Ref **03880000L26**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight
 Default **370kg**
 Maximum **380kg**
 Minimum* **285kg**
 *when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **741.7 0.8090**
 Non Spin OSN **717.0 0.8368**

Sails Limitations
 Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 40.07**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
CDL = 6.672

Stability (Estimated)
 Limit Positive Stab.: **109.3°**
 Stability Index: **101.9**

BOAT			
Name	Roxanna	Sail Nr	EST 748
File	EST748	Data in	meters/kilograms

RIG							
Forestay Tension	Aft				Spreaders	1	
Inner Stay	None Fitted			Runners/Checkstays	2		
Carbon Mast	No			Jib Furler	No		
Fiber Rigging	No			Main Furler	No		
Non-Circular Rigging	No						
Articulated Bowsprit	No						
P	10.000	E	3.520	MDT1	0.080	MW	0.115
IG	9.190	J	2.780	MDL1	0.115	GO	0.115
ISP	9.490	SFJ	0.000	MDT2	0.060	BD	0.100
BAS	1.190	SPL	2.750	MDL2	0.070	MWT	
FSD	-2.000	TPS	3.380	TL	1.480	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter VCG directly			
Flotation date	05/06/2020	SG	1.0252
VCGDe		-0.050	
FFM	0.882	FF	0.882
SFFP	0.509		
FAM	0.731	FA	0.731
SAFP	7.625		
LCF from stem on CL / on sheer			4.417 / 4.637
Maximum beam station from stem			4.741
RM Measured			41.5kg·m
RM Default			38.0kg·m
Limit of positive stability / Stab.Index			109.3° / 101.9
Freeboard at mast at 2.780			0.822

MIZZEN RIG AND SAILS	
	N/A

PROPELLER

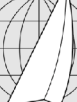
Type **No Propeller**

COMMENTS
Lisatud 105,6 kg ballasti Kaal koos p ramootoriga 1783

MOVABLE BALLAST
N/A

CENTERBOARD

N/A



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

Certificate
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ESTONIAN
YACHTING
UNION

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.69	1.27	2.21	2.89	20.48	EST1	26/06/2020		Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.46	0.88	1.78	2.66	3.55	8.90	128%	15.85	N	No	EST1	26/05/2020		Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	10.50	8.72	9.61	4.78	5.90	40.08	asy82	EST1	26/05/2020		Unknown					

2020

ORC Club Certificate Appendix

BOAT			
Name	Roxanna	Certificate Number	072/20
Sail Nr	EST 748	Issued On	19/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1199.1	998.4	883.8	822.9	806.3	802.5	812.8
52°	783.3	664.9	608.7	584.1	573.7	569.6	570.0
60°	738.0	633.5	592.7	569.8	555.2	549.0	546.8
75°	707.6	612.9	575.0	554.6	533.1	517.3	506.6
90°	678.6	593.1	556.4	527.3	509.6	499.2	473.1
110°	695.2	598.7	558.3	522.9	490.9	463.1	424.0
120°	727.6	613.9	567.9	532.0	499.3	467.6	397.0
135°	813.2	663.9	593.7	557.2	523.6	493.2	430.2
150°	954.1	761.4	653.1	600.0	570.2	544.1	490.4
Run VMG	1101.7	879.2	754.1	690.7	621.2	583.1	528.7
Selected Courses							
Windward / Leeward	1150.4	938.8	818.9	756.8	713.7	692.8	670.8
Circular Random	971.5	788.7	691.4	635.2	600.6	577.6	547.4
Coastal / Long Distance	1145.5	881.1	739.8	658.5	613.0	578.6	513.8
Non Spinnaker	1029.4	827.8	719.0	655.5	616.5	591.5	562.0

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°	42.0°	40.9°	39.0°	38.6°	38.8°	40.1°
Beat VMG	3.00	3.61	4.07	4.38	4.46	4.49	4.43
52°	4.60	5.41	5.91	6.16	6.28	6.32	6.32
60°	4.88	5.68	6.07	6.32	6.48	6.56	6.58
75°	5.09	5.87	6.26	6.49	6.75	6.96	7.11
90°	5.30	6.07	6.47	6.83	7.06	7.21	7.61
110°	5.18	6.01	6.45	6.89	7.33	7.77	8.49
120°	4.95	5.86	6.34	6.77	7.21	7.70	9.07
135°	4.43	5.42	6.06	6.46	6.88	7.30	8.37
150°	3.77	4.73	5.51	6.00	6.31	6.62	7.34
Run VMG	3.27	4.09	4.77	5.21	5.80	6.17	6.81
Gybe Angles	147.0°	147.8°	148.5°	171.6°	175.4°	177.2°	177.2°