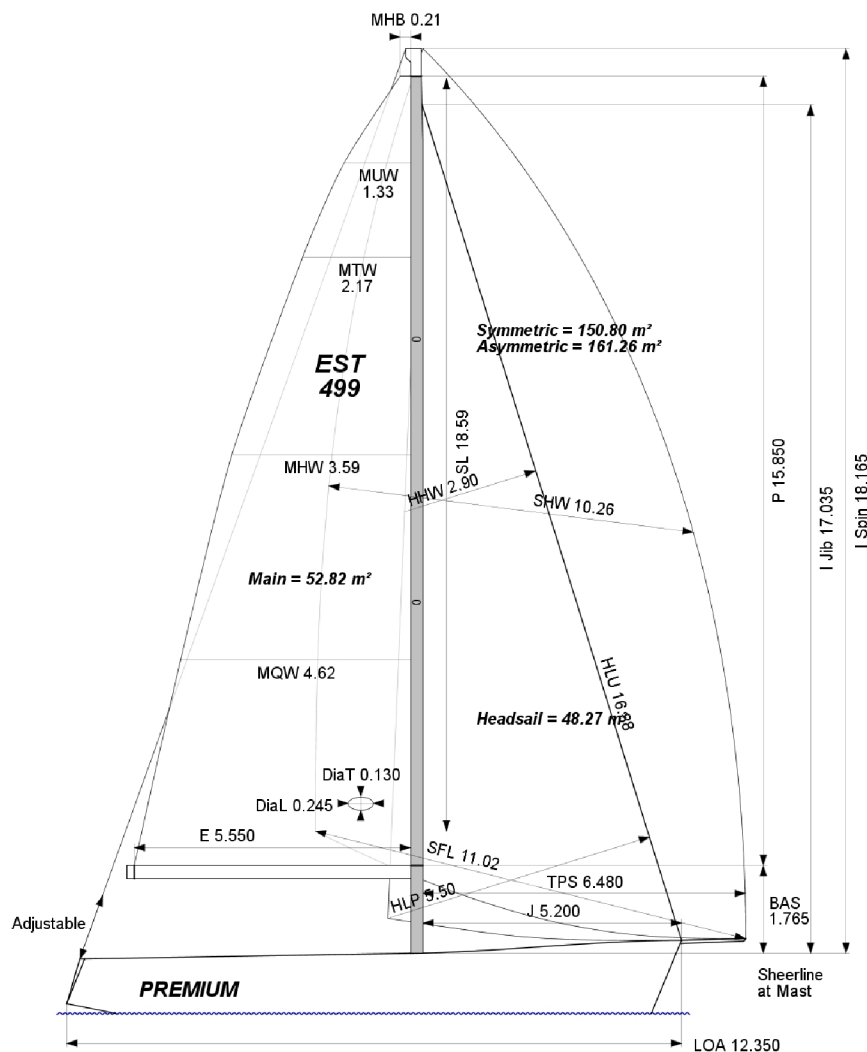




BOAT		GPH	HULL	
Name	PREMIUM	567.6	Data File	EST 499
Sail Nr	EST 499		Offset File	EST499.off
CLASS			Displacement	6,996kg
Class	X-41 mod		LOA	12.350m
Designer	JEPPESEN		MB	3.646m
Builder	X YACHTS		Draft	2.316m
Series	01/2006		IMS Division	Cruiser/Racer
Age Date	07/2016		Plan Review	Dynamic All. 0.019%
Age Allowance	0.455%		Fiber Rigging	No
COMMENTS			Crew Arm Ex	Construction Cored
PROPELLER			Light Stanchions	
Installation	Strut	PRD 0.430	IMSL	11.108m
Type	Folding 2 blades	PBW 0.125	VCGD	-0.174m
		PIPA 0.0032	Sink	23.07kg/mm
CENTERBOARD			RL	10.072m
			VCGM	-0.193m
			WS	32.57m²
			LSM0	10.990m
			Displacement/Length ratio	5.2706
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	552.3			618.2		
Time on Time	1.0864			1.0918		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	645.6	504.0	450.5	835.2	620.2	543.0
Time on Time	1.0455	1.3394	1.4984	0.8082	1.0884	1.2432



2020 ORC Club Certificate

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



Certificate
Number **155/20**
Issued On **16/09/2020**
ORC Ref **03880000QEK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **788kg**
Maximum **850kg**
Minimum* **638kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **604.5 0.9926**
Non Spin OSN **588.4 1.0198**

Sails Limitations
Headsails **6** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **Yes 150.80**
Asymmetric: **Yes 161.26**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **10.585**

Stability (Measured)
Limit Positive Stab.: **128.8°**
Stability Index: **132.6**

CENTERBOARD	
	N/A

Comment	
35;E5;55	
Material	Comment
Unknown	Jib Light
Unknown	Jib Medium
Carbon	Jib 2
Unknown	Heavy
Unknown	staysail
Comment	
(2019)	
Comment	
A1	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer		Meas.Date	Manufacture	Material	Comment				
7a	0.21	1.33	2.17	3.59	4.62	52.83			18/06/2018	OneSails	Carbon	P15,85;E5,55				
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
N	0.18	0.86	1.60	2.90	4.16	5.50	16.88	106%	48.27	Y	No		27/05/2020	Onesails	Unknow	Jib Light
L-2	0.18	0.84	1.58	2.90	4.17	5.51	16.87	106%	48.21	Y	No		20/05/2020	OneSails	Unknow	Jib Medium
J	0.12	0.76	1.45	2.83	4.18	5.47	17.09	105%	47.91	Y	No		28/06/2016	Onesails	Carbon	Jib 2
K	0.11	0.69	1.31	2.58	3.90	5.36	16.36	103%	43.10	Y	No		20/04/2020	OneSails	Unknow	Heavy
C	0.07					4.28	14.88	82%	32.32	N	Inner		19/06/2015		Unknow	staysail
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer		Meas.Date	Manufacture	Material	Comment				
G-1	17.80	17.80	17.80	10.10	10.43	150.80			09/07/2019	OneSails	Unknown	S 2 (2019)				
O-1	16.95	16.95	16.95	9.76	9.50	137.13			20/05/2020	OneSails	Unknown	S 2				
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
B-2	19.72	17.45	18.59	10.26	11.02	161.26	asym		20/05/2020	OneSails	Unknown	A1				

MEASUREMENT INVENTORY					
Measurer					
Date					
Comment					
Internal Ballast total = 0.0					
Id Item Weight Distance VCG Description					
SaS Tools 4.5 5.75 0.00 Sailor Services					
Id Item Weight Description					

2020

ORC Club Certificate Appendix

BOAT			
Name	PREMIUM	Certificate Number	155/20
Sail Nr	EST 499	Issued On	16/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	959.3	786.0	697.2	665.4	651.9	642.4	631.0
52°	626.0	522.8	479.4	465.8	460.1	457.3	449.1
60°	590.0	501.3	466.7	453.0	447.1	443.9	435.8
75°	562.6	487.1	457.4	440.0	427.9	421.2	415.2
90°	567.5	483.2	456.7	436.9	418.6	403.2	386.1
110°	565.4	474.7	441.1	420.4	406.8	393.3	370.1
120°	578.7	481.4	444.7	416.6	391.8	376.1	350.0
135°	650.3	520.3	463.7	435.0	407.0	379.8	323.3
150°	768.6	613.0	518.0	466.8	439.4	413.8	363.2
Run VMG	887.5	707.9	598.2	531.7	488.5	455.3	406.9
Selected Courses							
Windward / Leeward	923.4	746.9	647.7	598.5	570.2	548.8	518.9
Circular Random	778.0	629.4	550.8	505.7	477.8	458.7	431.8
Coastal / Long Distance	919.8	701.5	585.7	523.5	489.1	460.6	413.8
Non Spinnaker	844.4	676.5	585.7	532.5	499.5	477.4	448.4

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°	40.5°	39.0°	39.0°	38.6°	38.6°
Beat VMG	3.75	4.58	5.16	5.41	5.52	5.60	5.71
52°	5.75	6.89	7.51	7.73	7.82	7.87	8.02
60°	6.10	7.18	7.71	7.95	8.05	8.11	8.26
75°	6.40	7.39	7.87	8.18	8.41	8.55	8.67
90°	6.34	7.45	7.88	8.24	8.60	8.93	9.32
110°	6.37	7.58	8.16	8.56	8.85	9.15	9.73
120°	6.22	7.48	8.10	8.64	9.19	9.57	10.28
135°	5.54	6.92	7.76	8.28	8.84	9.48	11.13
150°	4.68	5.87	6.95	7.71	8.19	8.70	9.91
Run VMG	4.06	5.09	6.02	6.77	7.37	7.91	8.85
Gybe Angles	144.0°	147.0°	149.8°	156.0°	170.0°	180.0°	180.0°