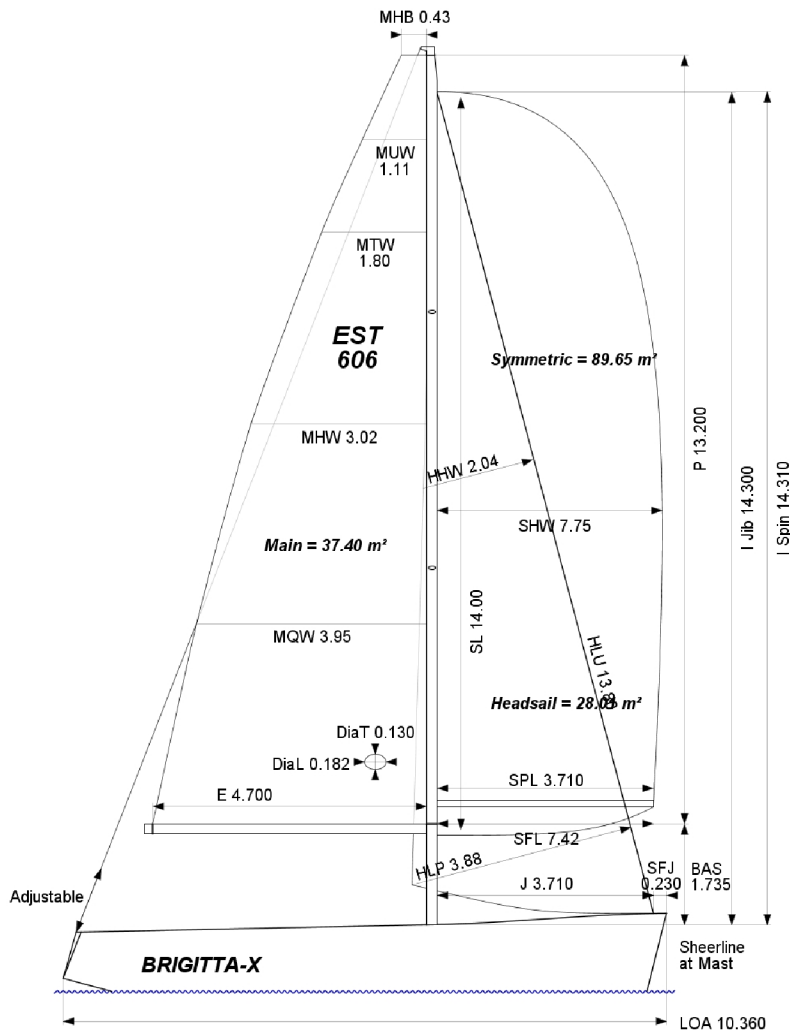




BOAT		GPH	HULL	
Name	BRIGITTA-X	637.0	Data File	EST606
Sail Nr	EST 606		LOA	10.360m
CLASS			Offset File	X34.OFF
			MB	3.384m
			Displacement	5,350kg
			Draft	1.905m
			IMS Division	Cruiser/Racer
			Dynamic All.	0.203%
			Plan Review	Construction
			Fiber Rigging	No
			Crew Arm Ex	No
			Light Stanchions	No
			IMSL	9.397m
			VCGD	0.030m
			Sink	17.93kg/mm
			RL	8.080m
			VCGM	0.018m
			WS	24.17m²
			LSM0	9.369m
			Displacement/Length ratio	6.5054
COMMENTS			Water Ballast	Trim Tab No
			BLR Index	0.0000
PROPELLER			CENTERBOARD	
			N/A	
Installation	Strut	PRD	0.430	
Type	Folding 2 blades	PBW	0.125	
		PIPA	0.0032	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	619.3			691.3		
Time on Time	0.9689			0.9764		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	730.0	563.9	505.1	944.1	693.7	604.6
Time on Time	0.9247	1.1971	1.3365	0.7150	0.9730	1.1164



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



Certificate
 Number 120/20
 Issued On 21/07/2020
 ORC Ref 03880000MTE
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 627kg
 Maximum 670kg
 Minimum* 503kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 672.6 0.8921
 Non Spin OSN 652.0 0.9203

Sails Limitations
 Headsails 5 Spinnakers 4

Spinnaker configuration
 Symmetric: Yes 89.65
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 8.733

Stability (Estimated)
 Limit Positive Stab.: 119.5°
 Stability Index: 121.4

BOAT Name BRIGITTA-X Sail Nr EST 606 File EST606 Data in meters/kilograms										INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 21/07/2020 SG 1.0015 VCGDe 0.030 FFM 1.332 FF 1.340 SFFP 0.325 FAM 1.007 FA 1.013 SAFP 10.060 LCF from stem on CL / on sheer 5.810 / 6.024 Maximum beam station from stem 6.985 RM Measured 116.0kg·m RM Default 123.9kg·m Limit of positive stability / Stab.Index 119.5° / 121.4 Freeboard at mast at 3.940 1.143										 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet			
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Riggig No Main Furler No Non-Circular Riggig No Articulated Bowsprit No P 13.200 E 4.700 MDT1 0.130 MW 0.182 IG 14.300 J 3.710 MDL1 0.182 GO 0.200 ISP 14.310 SFJ 0.230 MDT2 0.124 BD BAS 1.735 SPL 3.710 MDL2 0.134 MWT 159.50 FSD 0.032 TPS TL 0.440 MCG 4.600										PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.125 Twin Screw No PIPA 0.0032 ST1 0.060 ST3 0.180 ST5 0.325 ST2 0.180 ST4 0.092 EDL 1.800												Certificate Number 120/20 ORC Ref 03880000MTE Issued On 21/07/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020  ESTONIAN YACHTING UNION	
MIZZEN RIG AND SAILS N/A										MOVABLE BALLAST N/A													
COMMENTS 										CENTERBOARD N/A													

SAILS INVENTORY																	
MAINSAIL (1)																	
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
5	0.43	1.11	1.80	3.02	3.95	37.40				Unknown	P13.20;E4,70						
HEADSAILS (6)																	
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment	
5	0.12	0.65	1.23	2.04	2.90	3.88	13.80	105%	28.01	No			26/05/2014		Unknown		
2n	0.12	0.68	1.22	2.03	2.90	3.86	13.80	104%	27.96	No			24/04/2013		Unknown		
6	0.12	0.64	1.21	2.02	2.90	3.86	13.80	104%	27.84	No			26/05/2014		Unknown		
1n	0.12	0.62	1.12	2.01	2.90	3.90	13.87	105%	27.80	No			24/04/2013		Unknown		
4n2	0.12	0.62	1.12	1.95	2.83	3.88	13.77	105%	27.15	No			22/04/2013		Unknown		
3	0.09	0.47	0.90	1.76	2.65	3.60	14.00	97%	25.02	No					Unknown		
SYMMETRIC SPINNAKERS (4)																	
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
4	14.00	14.00	14.00	7.75	7.42	89.65				Unknown							
1	14.00	14.00	14.00	7.13	6.65	82.07				Unknown							
2	14.00	14.00	14.00	7.00	6.62	80.78				Unknown							
3	13.76	13.76	13.76	7.02	6.50	79.31		26/05/2014		Unknown							
ASYMMETRIC SPINNAKERS (0)																	
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment					

2020

ORC Club Certificate Appendix

BOAT			
Name	BRIGITTA-X	Certificate Number	120/20
Sail Nr	EST 606	Issued On	21/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1095.2	908.0	799.1	742.9	725.6	720.1	710.4
52°	709.7	600.3	540.3	515.7	506.7	503.2	499.4
60°	668.3	569.6	523.6	502.9	492.6	488.5	486.0
75°	639.1	548.0	511.4	491.9	477.8	467.4	459.2
90°	646.6	541.8	501.5	486.9	473.0	457.3	433.1
110°	637.2	531.9	493.3	469.1	448.4	436.1	416.5
120°	655.4	542.0	498.1	472.3	447.7	425.0	397.6
135°	722.6	588.5	519.2	488.6	464.4	440.2	395.1
150°	853.8	681.1	576.9	517.7	489.4	466.9	422.7
Run VMG	985.9	786.8	665.5	587.2	533.4	499.6	455.3
Selected Courses							
Windward / Leeward	1040.6	847.4	732.3	665.0	629.5	609.8	582.8
Circular Random	876.3	707.9	618.0	566.2	534.8	514.4	488.2
Coastal / Long Distance	1035.1	794.7	660.1	583.6	545.2	515.3	466.4
Non Spinnaker	940.7	753.3	651.5	591.8	555.1	531.5	502.9

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	43.5°	42.0°	41.3°	40.1°	39.8°	40.1°	40.1°
Beat VMG	3.29	3.96	4.51	4.85	4.96	5.00	5.07
52°	5.07	6.00	6.66	6.98	7.10	7.15	7.21
60°	5.39	6.32	6.88	7.16	7.31	7.37	7.41
75°	5.63	6.57	7.04	7.32	7.54	7.70	7.84
90°	5.57	6.64	7.18	7.39	7.61	7.87	8.31
110°	5.65	6.77	7.30	7.67	8.03	8.25	8.64
120°	5.49	6.64	7.23	7.62	8.04	8.47	9.05
135°	4.98	6.12	6.93	7.37	7.75	8.18	9.11
150°	4.22	5.29	6.24	6.95	7.36	7.71	8.52
Run VMG	3.65	4.58	5.41	6.13	6.75	7.21	7.91
Gybe Angles	145.0°	150.0°	151.0°	158.0°	180.0°	180.0°	180.0°