



ORC
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



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**

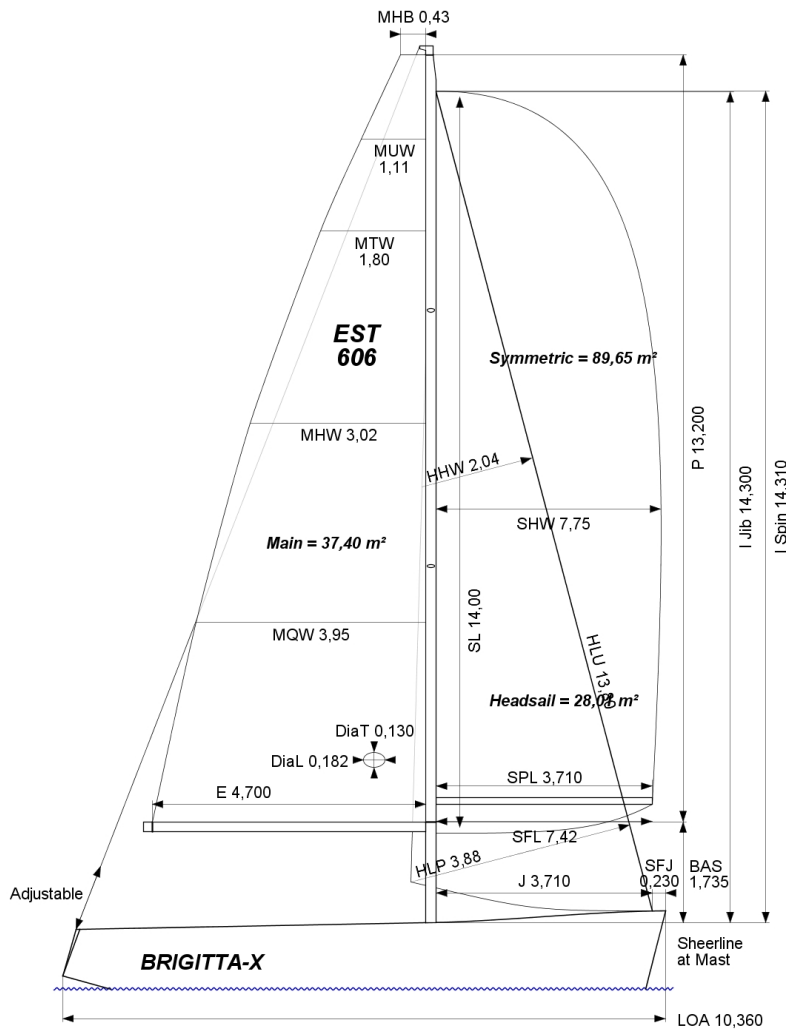
Class Division Length

CDL = 8.733

Stability (Estimated)

Limit Positive Stab.: **119.5°**
Stability Index: **121.4**

Owner



BOAT	GPH	HULL
Name BRIGITTA-X Sail Nr EST 606	637.0	Data File EST606 LOA 10.360m Offset File X34.OFF MB 3.384m Displacement 5,350kg Draft 1.905m
CLASS Class X-34 Designer JEPPESEN Builder X YACHTS Series 11/2007 Age Date 04/2009 Age Allowance 0.422%		IMS Division Cruiser/Racer Dynamic All. 0.203% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions
COMMENTS		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
PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.125 PIPA 0.0032		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
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

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°