

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **EST295**
Issued On **5/31/2020**
ORC Ref **03580000JHM**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 549kg
Maximum **510kg**
Minimum* **383kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **687.8 0.8723**
Non Spin OSN **665.1 0.9022**

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration

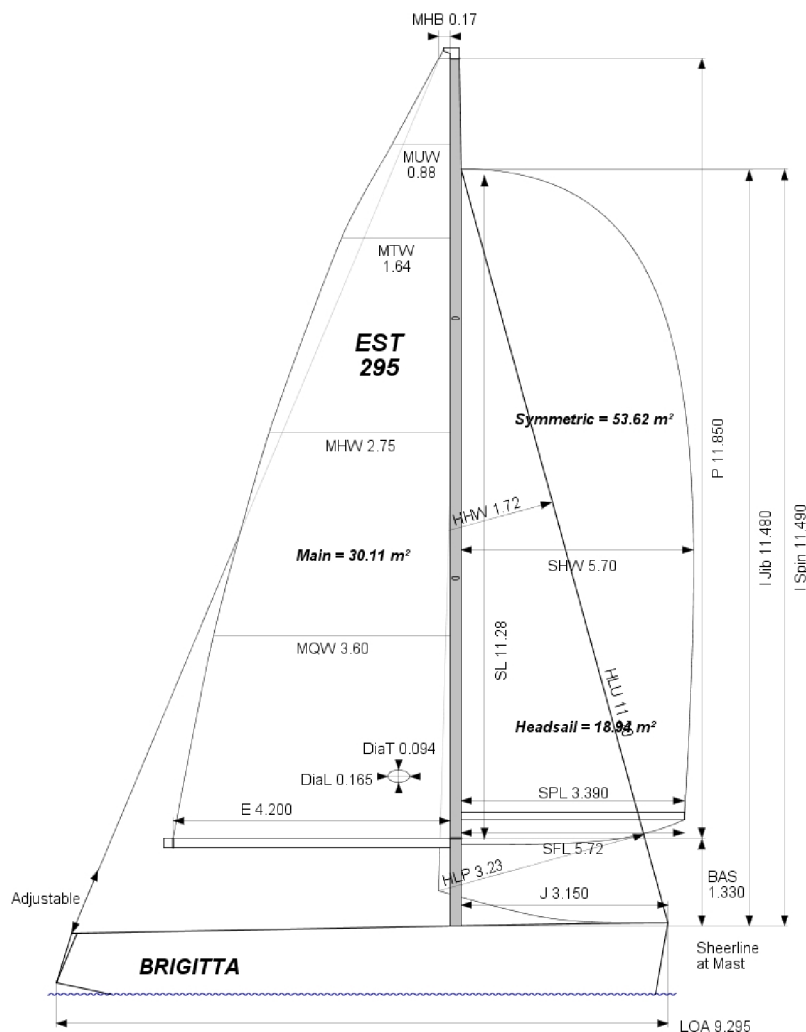
Symmetric: **Yes 53.62**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.307

Stability (Estimated)

Limit Positive Stab.: **125.9°**
Stability Index: **123.5**



BOAT		GPH		HULL		
Name BRIGITTA		657.1		Data File	Est0295 LOA 9.295m	
Sail Nr EST 295				Offset File	cross31.off MB 3.106m	
				Displacement	3,290kg Draft 1.964m	
CLASS				IMS Division	Cruiser/Racer Dynamic All. 0.225%	
Class CROSS 31				Plan Review	Construction Cored	
Designer				Fiber Rigging	No Aramid Core No	
Builder AS RIDAS JAHT				Crew Arm Ex	Carbon Rudder No	
Series 01/1999				Light Stanchions		
Age Date 01/2001				IMSL	8.607m VCGD -0.045m Sink 13.58kg/mm	
Age Allowance 0.487%				RL	8.005m VCGM -0.106m WS 18.27m	
COMMENTS				LSM0	8.533m Displacement/Length ratio	
				Water Ballast	Trim Tab No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation Strut		PRD	0.330	N/A		
Type Folding 2 blades		PBW	0.095			
		PIPA	0.0027			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	637.5			708.6		
Time on Time	0.9412			0.9526		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	754.7	581.7	516.5	974.9	711.3	616.1
Time on Time	0.8944	1.1604	1.3068	0.6924	0.9489	1.0956

BOAT										INCLINING TEST AND FREEBOARDS									
Name BRIGITTA					Sail Nr EST 295					Inclining Test Club Estimated VCG									
File Est0295					Data in meters/kilograms					Flotation date 31/05/2020 SG									
FFM					FF 1.077					SFFP 0.275									
FAM					FA 0.921					SAFP 8.975									
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast Yes Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										LCF from stem on CL / on sheer 5.086 / 5.284 Maximum beam station from stem 6.265 RM Measured 68.2kg·m RM Default 66.2kg·m Limit of positive stability / Stab.Index 125.9° / 123.5 Freeboard at mast at 3.150 1.030									
P 11.850 E 4.200 MDT1 0.094 MW 0.165					IG 11.480 J 3.150 MDL1 0.165 GO 0.165					ISP 11.490 SFJ 0.083 BD 0.143					BAS 1.330 SPL 3.390 MDL2 0.140 MWT				
FSD -3.000 TPS 1.750 MCG																			
MIZZEN RIG AND SAILS N/A										PROPELLER Installation Strut PRD 0.330 Type Folding 2 blades PBW 0.095 Twin Screw No PIPA 0.0027 ST1 0.041 ST3 0.185 ST5 0.244 ST2 0.210 ST4 0.092 EDL 0.880									
COMMENTS 										MOVABLE BALLAST N/A									
										CENTERBOARD N/A									
SAILS INVENTORY																			
MAINSAIL (1)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
3a	0.17	0.88	1.64	2.75	3.60	30.11	EST7	01/04/2020		Unknown									
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
5a	0.09	0.48	0.92	1.72	2.51	3.23	11.20	103%	18.94	No	EST7		01/04/2020		Unknow				
4	0.08	0.43	0.82	1.57	2.25	2.88	10.90	91%	16.56	No			12/05/2014		Unknow				
3	0.06	0.43	0.84	1.68	2.54	3.38	8.85	107%	14.98	No			13/07/2012		Unknow				
SYMMETRIC SPINNAKERS (1)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
2a	11.28	11.28	11.28	5.70	5.72	53.62	EST7	01/04/2020		Nylon									
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							



2020 Measurements Datasheet

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ORC Club Certificate Appendix

BOAT			
Name	BRIGITTA	Certificate Number	EST295
Sail Nr	EST 295	Issued On	5/31/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1101.7	914.1	802.8	746.3	728.3	721.8	712.3
52°	723.7	611.9	556.4	533.2	523.5	519.6	516.0
60°	685.4	585.0	542.2	521.5	509.8	504.7	502.5
75°	658.7	566.4	531.3	510.7	493.9	481.0	470.3
90°	661.6	559.2	520.0	499.4	488.5	470.0	440.8
110°	664.6	555.4	515.6	487.7	460.5	439.8	416.1
120°	688.7	569.1	522.1	493.7	465.7	438.5	393.3
135°	767.4	624.0	548.8	514.6	487.7	459.7	405.0
150°	911.0	720.4	609.3	545.6	514.3	489.0	437.6
Run VMG	1051.9	831.9	701.5	616.8	557.0	522.2	472.6
Selected Courses							
Windward / Leeward	1076.8	873.0	752.2	681.6	642.6	622.0	592.4
Circular Random	906.0	731.2	637.5	583.0	549.2	526.7	496.5
Coastal / Long Distance	1074.3	820.1	680.3	600.5	560.6	529.1	474.4
Non Spinnaker	961.9	770.4	666.4	605.2	567.4	542.5	511.1

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	42.4°	40.5°	39.9°	38.1°	37.5°	37.5°	37.5°
Beat VMG	3.27	3.94	4.48	4.82	4.94	4.99	5.05
52°	4.97	5.88	6.47	6.75	6.88	6.93	6.98
60°	5.25	6.15	6.64	6.90	7.06	7.13	7.16
75°	5.47	6.36	6.78	7.05	7.29	7.48	7.65
90°	5.44	6.44	6.92	7.21	7.37	7.66	8.17
110°	5.42	6.48	6.98	7.38	7.82	8.19	8.65
120°	5.23	6.33	6.90	7.29	7.73	8.21	9.15
135°	4.69	5.77	6.56	7.00	7.38	7.83	8.89
150°	3.95	5.00	5.91	6.60	7.00	7.36	8.23
Run VMG	3.42	4.33	5.13	5.84	6.46	6.89	7.62
Gybe Angles	146.0°	150.0°	152.5°	160.0°	180.0°	180.0°	180.0°