



ORC

Offshore Racing Congress
World leader in rating technology

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **EST319**
Issued On **5/27/2020**
ORC Ref **03580000J03**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 651kg
Maximum **550kg**
Minimum* **413kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **682.0 0.8798**
Non Spin OSN **659.9 0.9093**

Sails Limitations

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

Spinnaker configuration

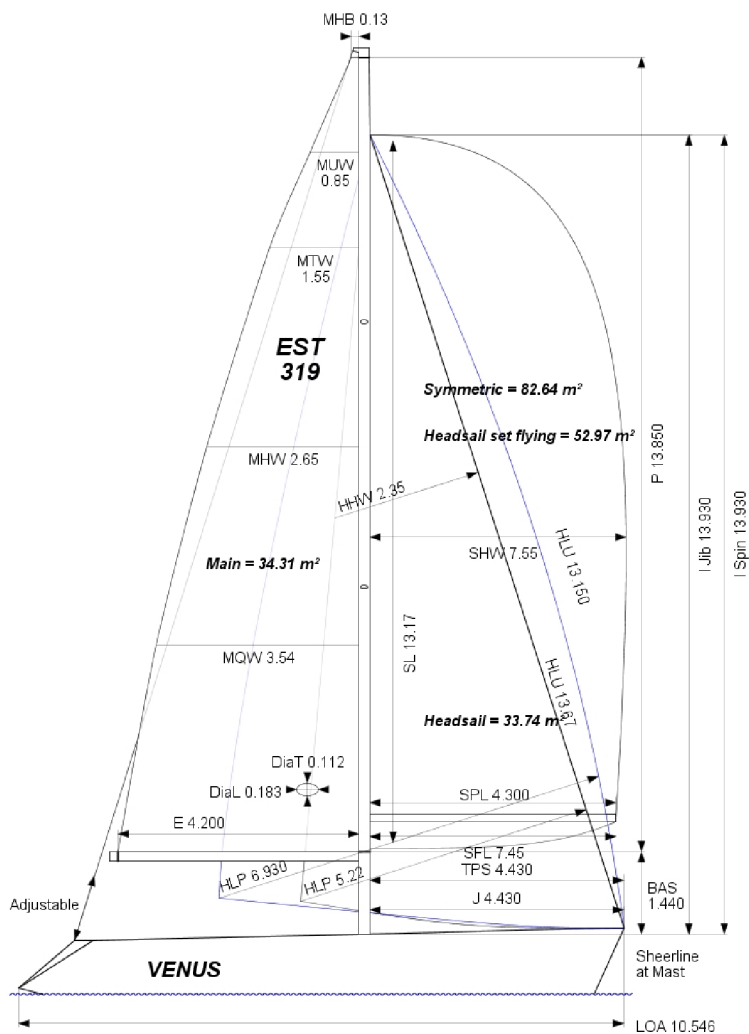
Symmetric: **Yes 82.64**
Asymmetric: **No**
Flying H/S: **Yes 52.97**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.845

Stability (Measured)

Limit Positive Stab.: **111.2°**
Stability Index: **114.1**



BOAT			GPH		HULL			
Name VENUS Sail Nr EST 319			644.1		Data File	Est0319	LOA	10.546m
					Offset File	est220.bof	MB	3.624m
					Displacement	6,462kg	Draft	2.025m
CLASS					IMS Division	Cruiser/Racer	Dynamic All.	0.319%
Class			RIDAS 35		Plan Review		Construction	Cored
Designer			LÖNNGREN		Fiber Rigging	No	Aramid Core	No
Builder			RIDAS JAHT		Crew Arm Ex		Carbon Rudder	No
Series			06/1997		Light Stanchions			
Age Date			05/2002		IMSL	9.643m	VCGD	0.135m
Age Allowance			0.487%		RL	8.054m	VCGM	0.065m
					WS			26.28m²
COMMENTS					LSM0	9.618m Displacement/Length ratio		
					Water Ballast			
					Trim Tab No			
					BLR Index 0.0000			
PROPELLER					CENTERBOARD			
Installation			Strut	PRD	N/A			
Type			Folding 2 blades	PBW				
				PIPA				
SCORING OPTIONS								
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance		628.1			700.2			
Time on Time		0.9553			0.9640			
Triple Number		Low	Medium	High	Low	Medium	High	
Time on Distance		737.0	571.1	510.0	963.9	706.6	607.0	
Time on Time		0.9159	1.1820	1.3234	0.7003	0.9553	1.1121	

BOAT										INCLINING TEST AND FREEBOARDS									
Name VENUS					Sail Nr EST 319					Inclining Test Current Inclining									
File Est0319					Data in meters/kilograms					Flotation date 20/05/2009 SG 1.0020									
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										FFM 1.125 FF 1.142 SFFP 0.550 FAM 0.918 FA 0.930 SAFB 9.246 W1 63.0 PD1 479.7 WD 11.995 W2 63.0 PD2 477.9 GSA 1.0 W3 63.0 PD3 479.7 RSA 1.0 W4 63.0 PD4 477.0 PLM 9000.0 LCF from stem on CL / on sheer 5.764 / 6.032 Maximum beam station from stem 6.694 RM Measured 124.3kg·m RM Default 124.0kg·m Limit of positive stability / Stab.Index 111.2° / 114.1 Freeboard at mast at 4.430 1.038									
P 13.850 E 4.200 MDT1 0.112 MW 0.183 IG 13.930 J 4.430 MDL1 0.183 GO 0.205 ISP 13.930 SFJ 0.000 MDT2 0.098 BD 0.168 BAS 1.440 SPL 4.300 MDL2 0.175 MWT 149.00 FSD 0.033 TPS 4.430 TL MCG 4.900										PROPELLER Installation Strut PRD 0.400 Type Folding 2 blades PBW 0.118 Twin Screw No PIPA 0.0030 ST1 0.058 ST3 0.118 ST5 0.213 ST2 0.118 ST4 0.098 EDL 1.900									
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								
1	0.13	0.85	1.55	2.65	3.54	34.32	Adamowich	29/03/2017	Narval	Unknown									
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
Code0	0.35	1.40	2.44	4.54	5.74	6.93	13.15	156%	52.97	N	Yes	EST 2	02/06/2011		Unknown	*Legacy Code 0:			
1a	0.09	0.63	1.08	2.35	3.70	5.22	13.67	118%	33.74		No				Unknown				
2	0.10	0.73	1.33	2.39	3.31	4.30	13.97	97%	32.04		No	DK206			Unknown	2012			
SYMMETRIC SPINNAKERS (1)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
2	13.17	13.17	13.17	7.55	7.45	82.65	Adamowich	29/03/2017	Narval	Unknown									
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	VENUS	Certificate Number	EST319
Sail Nr	EST 319	Issued On	5/27/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1096.6	913.3	807.8	744.1	716.9	705.5	703.6
52°	705.3	593.8	540.3	521.0	508.7	503.7	500.7
60°	654.9	556.6	519.0	505.0	497.2	490.9	486.8
75°	608.7	530.2	502.2	487.1	477.4	471.2	464.0
90°	600.5	525.4	497.8	480.0	464.9	451.9	436.8
110°	650.6	549.5	504.4	481.4	461.9	445.8	427.6
120°	682.4	562.8	510.0	485.2	465.0	444.8	412.7
135°	752.0	617.9	537.5	502.0	480.3	459.7	419.0
150°	890.6	708.0	602.6	534.6	502.4	481.9	442.9
Run VMG	1028.3	817.5	694.7	609.8	550.4	512.1	471.0
Selected Courses							
Windward / Leeward	1062.5	865.4	751.3	676.9	633.6	608.8	587.3
Circular Random	884.9	715.8	625.1	572.5	540.3	519.9	496.0
Coastal / Long Distance	1059.1	810.0	674.3	591.4	549.9	519.5	474.0
Non Spinnaker	955.0	764.6	660.7	599.3	561.4	537.2	509.0

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°	40.5°	40.5°	39.8°	38.8°	38.3°	38.4°
Beat VMG	3.28	3.94	4.46	4.84	5.02	5.10	5.12
52°	5.10	6.06	6.66	6.91	7.08	7.15	7.19
60°	5.50	6.47	6.94	7.13	7.24	7.33	7.39
75°	5.91	6.79	7.17	7.39	7.54	7.64	7.76
90°	6.00	6.85	7.23	7.50	7.74	7.97	8.24
110°	5.53	6.55	7.14	7.48	7.79	8.08	8.42
120°	5.28	6.40	7.06	7.42	7.74	8.09	8.72
135°	4.79	5.83	6.70	7.17	7.50	7.83	8.59
150°	4.04	5.08	5.97	6.73	7.17	7.47	8.13
Run VMG	3.50	4.40	5.18	5.90	6.54	7.03	7.64
Gybe Angles	146.0°	150.5°	152.0°	156.5°	180.0°	180.0°	180.0°