



ORC
Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST479**
Issued On **5/23/2019**
ORC Ref **EST0000587**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 688kg
Maximum **570kg**
Minimum* **428kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **671.8 0.8932**
Double H.OSN **650.1 0.9230**
Non Spin GPH **704.5 0.8517**
Non Spin OSN **679.6 0.8829**

Sails Limitations

Headsails **1** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 87.29**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.626

Stability (Estimated)

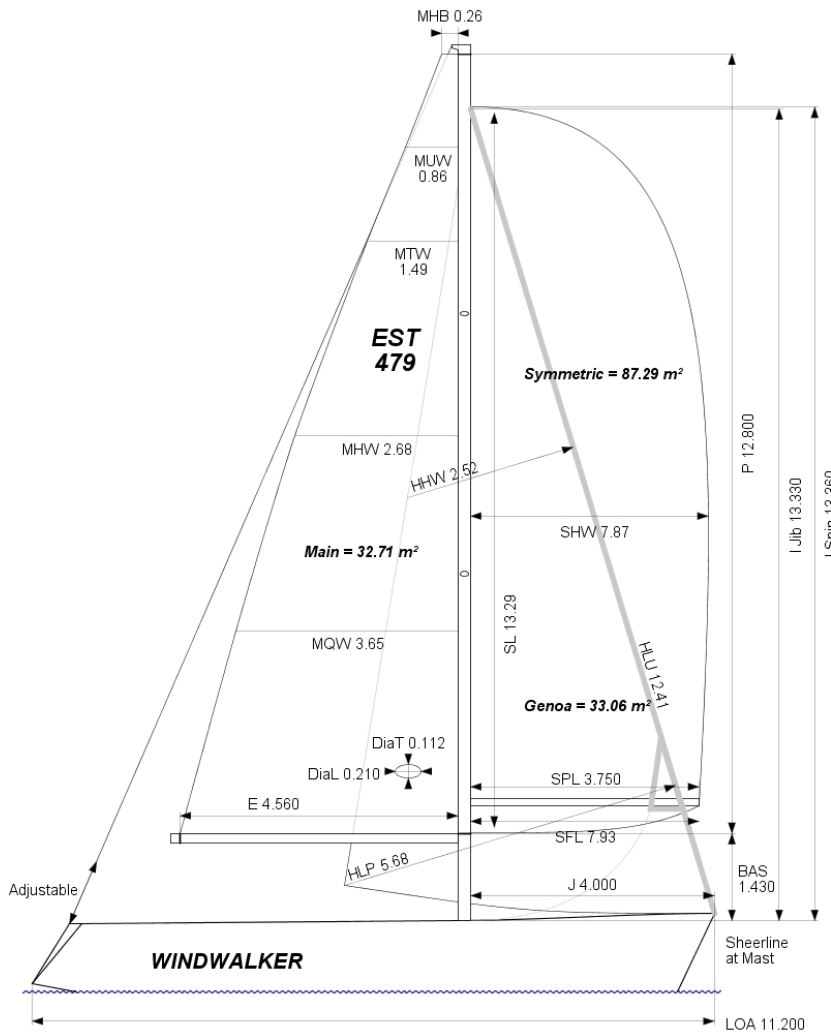
Limit Positive Stab.: **104.4°**
Stability Index: **105.9**

Owner

**Widwalker OÜ
Roheline 49
Pärnu, Estonia
PJK**

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL					
Name WindWalker		668.2		Data File Est0479	LOA 11.200m				
Sail Nr EST479				Offset File BAVA37CL.OFF	MB 3.802m				
				Displacement 6,900kg	Draft 1.951m				
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.386%				
Class BAVARIA 37 CR				Fwd Accom. Yes	Construction Solid				
Designer				Fiber Rigging No	Aramid Core No				
Builder BAVARIA YACHTBAU				Crew Arm Ex	Carbon Rudder No				
Series 04/2002				Light Stanchions					
Age Date 07/2006				IMSL 10.057m	VCGD 0.139m	Sink 22.17kg/mm			
Age Allowance 0.487%				RL 7.194m	VCGM 0.239m	WS 28.80m²			
COMMENTS				LSM0 9.997m	Displacement/Length ratio 6.9062				
Ex. Galatea				Water Ballast 0	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Strut	PRD 0.430			N/A					
Type Folding 2 blades	PIPA 0.0039								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE					WINDWARD / LEEWARD			
Time on Distance	646.8					722.3			
Time on Time	0.9277					0.9345			
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	789.7	587.2	506.5	1028.0	734.0	606.0			
Time on Time	0.8548	1.1496	1.3326	0.6566	0.9196	1.1139			

BOAT	
Name WindWalker	Sail Nr EST479
File Est0479	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 23/05/2019		SG	
FFM	FF 1.279	SFFP	0.394
FAM	FA 1.110	SAFP	10.381
LCF from stem on CL / on sheer		6.209 / 6.488	
Maximum beam station from stem		7.337	
RM Measured		168.5kg·m	
RM Default		163.6kg·m	
Limit of positive stability / Stab.Index		104.4° / 105.9	
Freeboard at mast at 4.000		1.167	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		Runners 0
Inner Stay None Fitted	Jumper Struts None		Jib Furler Yes
Carbon Mast No	Main Furler No		Without Backstay No
Taper Hollows No	Main Furler No		Without Backstay No
Fiber Rigging No	Main Furler No		Without Backstay No
Lenticular Rigging No	Main Furler No		Without Backstay No
Articulated Bowsprit No	Main Furler No		Without Backstay No
P 12.800	E 4.560	MDT1 0.112	MW 0.000
IG 13.330	J 4.000	MDL1 0.210	GO 0.000
ISP 13.360	SFJ 0.000	MDT2	BD
BAS 1.430	SPL 3.750	MDL2	MWT
FSP 0.060	TPS	TL	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.430		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0039		
ST1 0.065	ST3	ST5 0.315	
ST2	ST4 0.106	EDL 2.300	

Certificate	
Number EST479	
ORC Ref EST00000587	
Issued On 5/23/2019	
VPP Ver. 2019 1.01	
Valid until 12/31/2019	

COMMENTS	
Ex. Galateia	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.26	0.86	1.49	2.68	3.65	32.72	EST 1			Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.63	1.22	2.52	3.97	5.68	12.41	142%	33.06			EST 1			Unknown	
3	0.08	0.61	1.16	2.31	3.53	4.86	12.88	122%	30.56			EST 1			Unknown	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	13.29	13.29	13.29	7.87	7.93	87.30	EST 1			Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2009

ORC Club Certificate Appendix

BOAT	
Name WindWalker	Certificate Number EST479
Sail Nr EST479	Issued On 5/23/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1205.4	989.5	870.6	787.3	729.7	702.9	694.4
52°	772.1	647.4	574.3	529.1	505.8	493.9	487.6
60°	723.1	611.6	545.7	511.6	493.1	481.8	472.9
75°	689.7	584.6	526.3	498.7	482.4	469.7	450.9
90°	694.8	574.8	510.4	483.0	468.9	461.8	439.9
110°	682.2	561.1	502.3	475.8	455.6	436.6	413.1
120°	702.2	576.1	509.4	480.1	459.0	438.3	402.0
135°	777.1	631.6	540.8	497.1	473.6	453.5	413.9
150°	929.7	730.5	613.3	538.7	498.0	475.7	438.0
Run VMG	1073.6	843.7	708.0	616.0	555.6	511.3	466.6
Selected Courses							
Windward / Leeward	1139.5	916.6	789.3	701.6	642.7	607.1	580.5
Circular Random	940.8	751.8	647.4	584.6	544.8	518.9	489.0
Coastal / Long Distance	1132.9	857.9	704.5	606.4	551.8	516.4	466.6
Non Spinnaker	1004.8	797.6	681.9	611.4	566.3	536.6	502.0

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	45.2°	43.5°	42.5°	42.0°	40.5°	39.5°	39.2°
Beat VMG	2.99	3.64	4.14	4.57	4.93	5.12	5.18
52°	4.66	5.56	6.27	6.80	7.12	7.29	7.38
60°	4.98	5.89	6.60	7.04	7.30	7.47	7.61
75°	5.22	6.16	6.84	7.22	7.46	7.67	7.98
90°	5.18	6.26	7.05	7.45	7.68	7.80	8.18
110°	5.28	6.42	7.17	7.57	7.90	8.25	8.71
120°	5.13	6.25	7.07	7.50	7.84	8.21	8.96
135°	4.63	5.70	6.66	7.24	7.60	7.94	8.70
150°	3.87	4.93	5.87	6.68	7.23	7.57	8.22
Run VMG	3.35	4.27	5.08	5.84	6.48	7.04	7.72
Gybe Angles	146.3°	150.2°	150.5°	154.8°	168.6°	180.0°	180.0°