



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **ESTF32**
Issued On **5/25/2020**
ORC Ref **03580000ISW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 324kg
Maximum **240kg**
Minimum* **155kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	862.5	0.6957
Non Spin OSN	831.3	0.7217

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

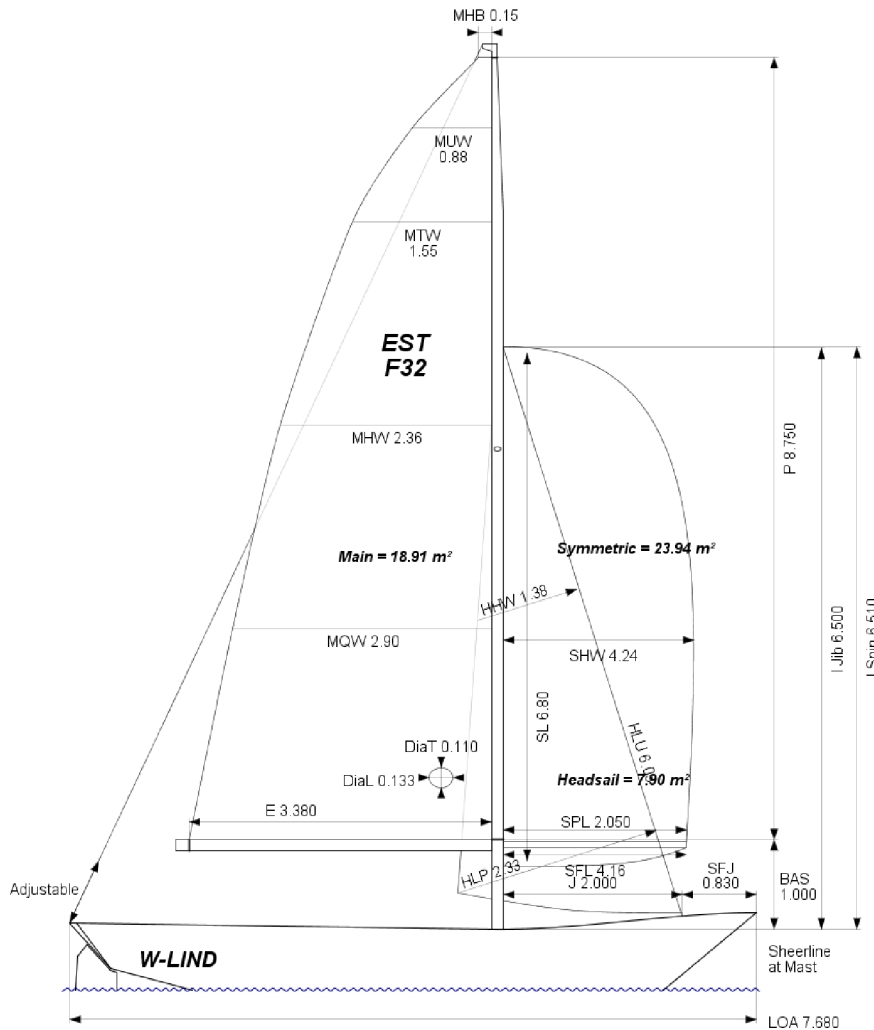
Symmetric: **Yes 23.94**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 5.108

Stability (Estimated)

Limit Positive Stab.: **130.0°**
Stability Index: **131.5**



BOAT		GPH	HULL					
Name	W-Lind	836.0	Data File	Est0F32	LOA	7.680m		
Sail Nr	EST F32		Offset File	G1746.OFF	MB	2.210m		
			Displacement	1,939kg	Draft	1.142m		
			IMS Division	Cruiser/Racer	Dynamic All.	0.521%		
			Plan Review		Construction	Solid		
			Fiber Rigging	No	Aramid Core	No		
			Crew Arm Ex		Carbon Rudder	No		
					Light Stanchions	No		
			IMSL	5.935m	VCGD	-0.228m	Sink	7.24kg/mm
			RL	4.280m	VCGM	-0.210m	WS	13.63m²
			LSM0	5.896m Displacement/Length ratio				
			Water Ballast	Trim Tab No				
			BLR Index	0.0000				
COMMENTS			CENTERBOARD					
			N/A					
PROPELLER			SCORING OPTIONS					
Type		No Propeller	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance			812.4			912.8		
Time on Time			0.7386			0.7395		
Triple Number			Low	Medium	High	Low	Medium	High
Time on Distance			964.4	736.9	665.5	1249.5	915.0	806.6
Time on Time			0.6999	0.9160	1.0143	0.5402	0.7377	0.8368

BOAT	
Name W-Lind	Sail Nr EST F32
File Est0F32	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 23/05/2020		SG	
FFM	FF 0.866	SFFP	0.110
FAM	FA 0.751	SAFP	7.670
LCF from stem on CL / on sheer		4.044 / 4.187	
Maximum beam station from stem		4.158	
RM Measured		20.1kg·m	
RM Default		19.5kg·m	
Limit of positive stability / Stab.Index		130.0° / 131.5	
Freeboard at mast at 2.830		0.681	



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Measurements
Datasheet

RIG			
Forestay Tension	Aft	Spreaders	1
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		
P	8.750	E	3.380
IG	6.500	J	2.000
ISP	6.510	SFJ	0.830
BAS	1.000	SPL	2.050
FSD	-2.000	TPS	
MDT1	0.110	MW	0.000
MDL1	0.133	GO	0.000
MDT2	0.000	BD	
MDL2	0.000	MWT	
TL	-2.000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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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					
1	0.15	0.88	1.55	2.36	2.90	18.80				Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.04	0.35	0.75	1.38	1.99	2.33	6.05	117%	7.90	No					Unknow	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	6.80	6.80	6.80	4.24	4.16	23.94					* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	W-Lind	Certificate Number	ESTF32
Sail Nr	EST F32	Issued On	5/25/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1468.1	1221.8	1088.6	1020.7	1000.4	996.2	1003.8
52°	950.0	805.4	716.5	675.7	661.3	656.5	657.2
60°	895.5	761.1	683.7	650.3	635.8	629.8	629.5
75°	856.9	721.2	657.1	631.5	613.5	601.5	591.3
90°	816.9	683.0	630.4	604.7	593.1	584.7	559.0
110°	826.9	685.7	631.5	601.1	573.5	549.7	527.7
120°	863.9	708.1	641.3	609.0	581.0	553.6	511.6
135°	975.9	788.9	673.3	628.3	599.9	572.8	522.9
150°	1122.3	887.0	744.2	659.9	622.8	596.4	545.9
Run VMG	1294.3	1014.2	848.6	728.6	659.1	623.5	572.5
Selected Courses							
Windward / Leeward	1381.2	1118.0	968.6	874.7	829.7	809.8	788.2
Circular Random	1155.4	930.5	810.1	741.5	701.3	677.0	649.7
Coastal / Long Distance	1372.5	1046.3	868.6	763.9	713.0	675.4	609.3
Non Spinnaker	1201.6	963.8	835.4	761.2	716.9	689.9	660.5

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	44.3°	42.4°	42.0°	43.3°	43.5°	44.3°	45.0°
Beat VMG	2.45	2.95	3.31	3.53	3.60	3.61	3.59
52°	3.79	4.47	5.02	5.33	5.44	5.48	5.48
60°	4.02	4.73	5.27	5.54	5.66	5.72	5.72
75°	4.20	4.99	5.48	5.70	5.87	5.98	6.09
90°	4.41	5.27	5.71	5.95	6.07	6.16	6.44
110°	4.35	5.25	5.70	5.99	6.28	6.55	6.82
120°	4.17	5.08	5.61	5.91	6.20	6.50	7.04
135°	3.69	4.56	5.35	5.73	6.00	6.28	6.89
150°	3.21	4.06	4.84	5.46	5.78	6.04	6.60
Run VMG	2.78	3.55	4.24	4.94	5.46	5.77	6.29
Gybe Angles	152.0°	160.0°	174.0°	180.0°	180.0°	180.0°	180.0°