



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **067-20**
Issued On **16/06/2020**
ORC Ref **03880000KP9**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 442kg
Maximum **485kg**
Minimum* **364kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **724.0 0.8287**
Non Spin OSN **699.8 0.8574**

Sails Limitations

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

Spinnaker configuration

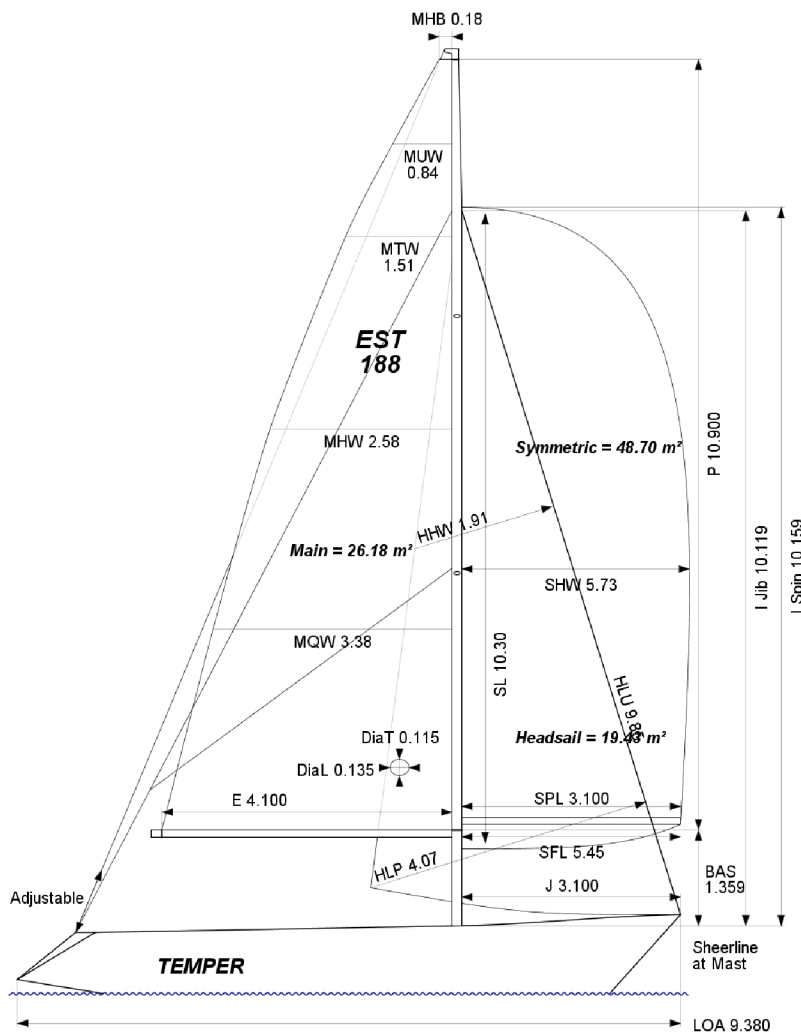
Symmetric: **Yes 48.70**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7.195

Stability (Estimated)

Limit Positive Stab.: **114.8°**
Stability Index: **109.0**



BOAT			GPH		HULL			
Name TEMPER Sail Nr EST-188			695.8		Data File	EST188	LOA	9.380m
					Offset File	FF31LF.OFF	MB	3.240m
					Displacement	2,986kg	Draft	1.750m
					IMS Division		Dynamic All.	0.213%
CLASS					Plan Review		Construction	Cored
Class			FINNFLYER 31 LF		Fiber Rigging	No	Aramid Core	No
Designer			EIVIND STILL		Crew Arm Ex		Carbon Rudder	No
Builder			POLAR YACHT		Light Stanchions			
Series			01/1983		IMSL	7.399m	VCGD	0.000m
Age Date			01/1983		RL	7.008m	VCGM	-0.013m
Age Allowance			0.487%		WS	16.54m		
COMMENTS					LSM0	7.328m	Displacement/Length ratio	
EX FIN-3133 TEMPTATION					Water Ballast			
					Trim Tab No			
					BLR Index 0.0000			
PROPELLER					CENTERBOARD			
Installation			Shaft exposed		PRD	0.380		
Type			Folding 2 blades		PIPA	0.0042		
					N/A			
SCORING OPTIONS								
		COASTAL / LONG DISTANCE				WINDWARD / LEEWARD		
Time on Distance		675.1				750.1		
Time on Time		0.8887				0.8998		
Triple Number		Low	Medium	High	Low	Medium	High	
Time on Distance		800.5	615.4	547.8	1035.3	754.2	653.0	
Time on Time		0.8432	1.0969	1.2321	0.6520	0.8950	1.0337	

BOAT Name TEMPER Sail Nr EST-188 File EST188 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 16/06/2020 SG 1.0243 VCGDe 0.000 FFM 1.099 FF 1.099 SFFP 0.616 FAM 0.815 FA 0.815 SAFF 8.279 LCF from stem on CL / on sheer 5.041 / 5.251 Maximum beam station from stem 5.470 RM Measured 57.6kg·m RM Default 55.2kg·m Limit of positive stability / Stab.Index 114.8° / 109.0 Freeboard at mast at 3.100 0.959														
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 2 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit		PROPELLER Installation Shaft exposed PRD 0.380 Type Folding 2 blades PBW Twin Screw No PIPA 0.0042 PSA 23.000 PHL 0.140 ST3 0.080 ESL 0.880 PSD 0.030 ST1 0.020 ST4 PHD 0.065 ST2 0.080 ST5														
MIZZEN RIG AND SAILS N/A		MOVABLE BALLAST N/A														
COMMENTS EX FIN-3133 TEMPTATION		CENTERBOARD N/A														
SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.18	0.84	1.51	2.58	3.38	26.19										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.47	0.92	1.91	2.97	4.07	9.85	131%	19.43		No					* Copied from
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	10.30	10.30	10.30	5.73	5.45	48.71										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet



EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	TEMPER	Certificate Number	067-20
Sail Nr	EST-188	Issued On	16/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1175.5	977.0	862.2	797.7	773.4	764.2	768.5
52°	768.0	646.4	589.0	563.5	550.8	545.1	542.3
60°	726.2	616.0	572.2	550.4	536.4	527.8	522.3
75°	697.6	596.5	559.4	538.2	520.5	505.9	490.6
90°	702.6	589.6	547.7	523.2	506.8	496.9	470.1
110°	703.9	587.2	544.1	515.5	489.3	468.4	444.4
120°	730.2	602.8	551.8	522.3	494.7	470.6	431.8
135°	812.8	662.6	578.2	542.4	515.1	488.9	444.0
150°	961.6	760.9	642.1	573.5	541.3	515.7	469.0
Run VMG	1110.4	878.4	739.1	645.5	582.3	547.7	498.3
Selected Courses							
Windward / Leeward	1142.9	927.7	800.7	721.6	677.8	656.0	633.4
Circular Random	960.7	774.8	674.9	616.9	581.4	558.7	531.1
Coastal / Long Distance	1139.7	870.7	722.7	635.4	591.1	559.2	506.1
Non Spinnaker	1010.8	810.3	701.5	637.6	598.3	573.4	545.2

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°	42.0°	41.3°	39.2°	38.6°	38.3°	39.4°
Beat VMG	3.06	3.68	4.18	4.51	4.65	4.71	4.68
52°	4.69	5.57	6.11	6.39	6.54	6.60	6.64
60°	4.96	5.84	6.29	6.54	6.71	6.82	6.89
75°	5.16	6.04	6.44	6.69	6.92	7.12	7.34
90°	5.12	6.11	6.57	6.88	7.10	7.25	7.66
110°	5.11	6.13	6.62	6.98	7.36	7.69	8.10
120°	4.93	5.97	6.52	6.89	7.28	7.65	8.34
135°	4.43	5.43	6.23	6.64	6.99	7.36	8.11
150°	3.74	4.73	5.61	6.28	6.65	6.98	7.68
Run VMG	3.24	4.10	4.87	5.58	6.18	6.57	7.22
Gybe Angles	147.0°	151.5°	152.5°	164.0°	180.0°	180.0°	180.0°