

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est220**
Issued On **5/30/2020**
ORC Ref **03580000JFT**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 419kg
Maximum **350kg**
Minimum* **263kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **789.7 0.7598**
Non Spin OSN **765.0 0.7843**

Sails Limitations

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

Spinnaker configuration

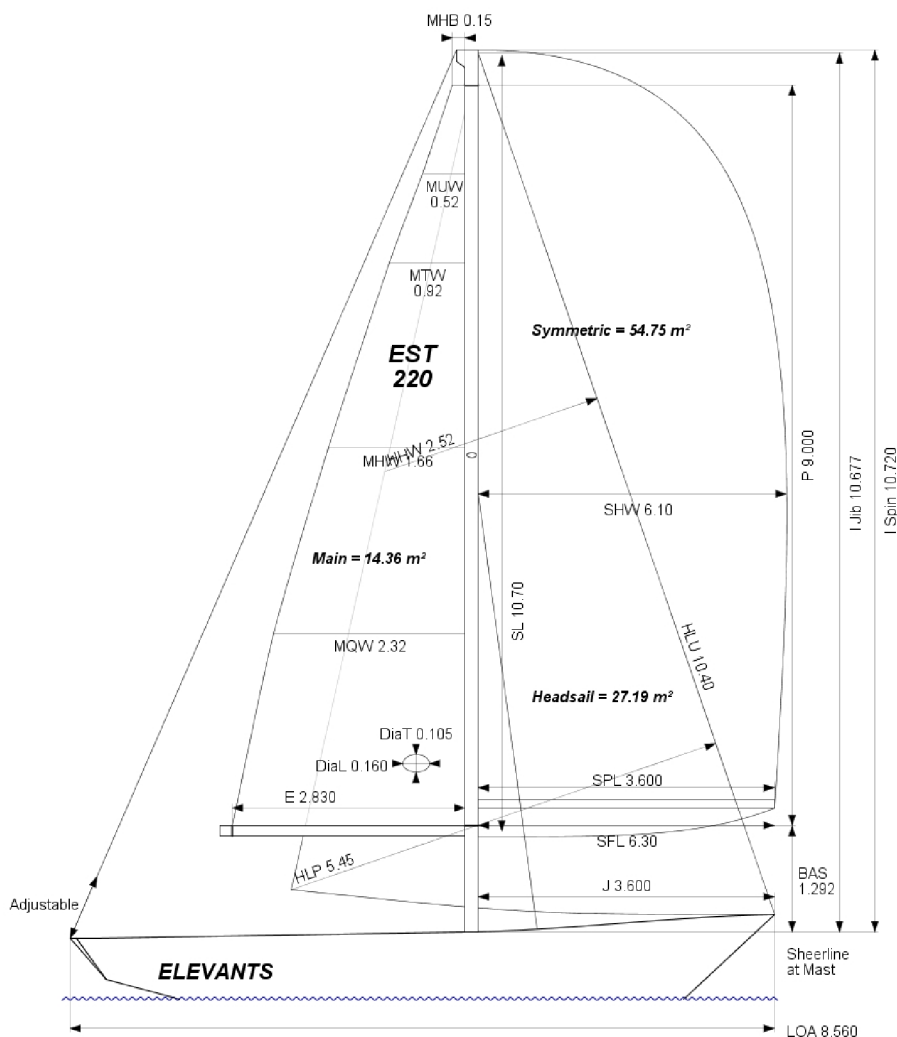
Symmetric: **Yes 54.75**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **6.282**

Stability (Estimated)

Limit Positive Stab.: **110.4°**
Stability Index: **110.0**



BOAT			GPH		HULL			
Name ELEVANTS			755.9		Data File Est0220 LOA 8.560m			
Sail Nr EST 220					Offset File e186.bof MB 2.920m			
					Displacement 3,342kg Draft 1.585m			
CLASS					IMS Division Cruiser/Racer Dynamic All. 0.559%			
					Plan Review Construction Solid			
					Fiber Rigging No Aramid Core No			
					Crew Arm Ex Carbon Rudder No			
					Light Stanchions No			
Class COMPIS 28					IMSL 7.010m VCGD 0.097m Sink 10.68kg/mm			
Designer BO ANDERSSON					RL 5.553m VCGM 0.028m WS 15.23m			
Builder Compisbatar					LSM0 7.056m Displacement/Length ratio			
Series 01/1968					Water Ballast Trim Tab No			
Age Date 01/1979					BLR Index 0.0000			
Age Allowance 0.487%								
COMMENTS					CENTERBOARD			
					N/A			
PROPELLER								
Installation Shaft exposed		PRD 0.300						
Type Solid 2 blades		PBW 0.095						
		PIPA 0.0054						
SCORING OPTIONS								
			COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance			734.9			817.7		
Time on Time			0.8165			0.8255		
Triple Number			Low	Medium	High	Low	Medium	High
Time on Distance			860.1	671.2	604.1	1100.4	823.2	719.5
Time on Time			0.7848	1.0057	1.1174	0.6134	0.8200	0.9381

BOAT										INCLINING TEST AND FREEBOARDS										 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet		
Name ELEVANTS		Sail Nr EST 220		Inclining Test Club Estimated VCG																		
File Est0220		Data in meters/kilograms		Flotation date 15/10/2019						SG												
				FFM		FF		1.003		SFFP		0.623										
				FAM		FA		0.689		SAFP		8.230										
RIG										LCF from stem on CL / on sheer 4.840 / 5.031 Maximum beam station from stem 5.265 RM Measured 38.9kg·m RM Default 37.7kg·m Limit of positive stability / Stab.Index 110.4° / 110.0 Freeboard at mast at 3.600 0.813												
Forestay Tension Aft Spreaders 1 Inner Stay Fixed Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit																						
P 9.000 E 2.830 MDT1 0.105 MW 0.160 IG 10.677 J 3.600 MDL1 0.160 GO 0.183 ISP 10.720 SFJ 0.000 MDT2 0.105 BD 0.130 BAS 1.292 SPL 3.600 MDL2 0.160 MWT 88.50 FSD TPS TL 0.000 MCG 5.320																						
MIZZEN RIG AND SAILS										PROPELLER										Certificate Number Est220 ORC Ref 03580000JFT Issued On 5/30/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020		
N/A										Installation Shaft exposed PRD 0.300 Type Solid 2 blades PBW 0.095 Twin Screw No PIPA 0.0054												
										PSA PHL 0.055 ST3 0.075 ESL PSD 0.012 ST1 0.025 ST4 0.092 PHD 0.045 ST2 0.430 ST5												
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	0.00	0.52	0.92	1.66	2.32	14.37																
HEADSAILS (1)																						
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment						
1	0.06	0.62	1.22	2.52	3.92	5.45	10.40	151%	27.19		No											
SYMMETRIC SPINNAKERS (1)																						
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment											
1	10.70	10.70	10.70	6.10	6.30	54.75																
ASYMMETRIC SPINNAKERS (0)																						
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment										

2020

ORC Club Certificate Appendix

BOAT			
Name	ELEVANTS	Certificate Number	Est220
Sail Nr	EST 220	Issued On	5/30/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1268.9	1073.9	962.9	896.0	870.1	857.9	858.4
52°	833.5	713.8	645.3	616.1	601.8	594.9	591.6
60°	791.6	677.2	623.8	600.1	586.1	577.3	571.7
75°	764.0	652.1	608.1	586.2	570.7	558.1	541.8
90°	773.2	653.0	598.0	574.8	565.0	550.0	524.4
110°	765.3	635.6	587.2	560.7	538.4	520.8	503.4
120°	786.6	647.6	591.9	563.4	539.1	516.6	486.6
135°	855.1	703.4	614.9	579.3	554.1	529.8	488.1
150°	989.6	794.8	677.4	609.2	578.4	555.2	511.4
Run VMG	1142.7	916.5	779.7	684.9	620.3	586.2	541.4
Selected Courses							
Windward / Leeward	1205.8	995.2	871.3	790.5	745.2	722.1	699.9
Circular Random	1033.4	838.0	733.7	673.8	637.7	615.0	588.4
Coastal / Long Distance	1199.5	934.8	785.6	694.9	649.4	614.8	560.6
Non Spinnaker	1093.9	880.9	765.7	698.5	657.4	631.4	601.1

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	42.8°	41.6°	41.6°	41.4°	41.3°	40.9°	41.3°
Beat VMG	2.84	3.35	3.74	4.02	4.14	4.20	4.19
52°	4.32	5.04	5.58	5.84	5.98	6.05	6.09
60°	4.55	5.32	5.77	6.00	6.14	6.24	6.30
75°	4.71	5.52	5.92	6.14	6.31	6.45	6.64
90°	4.66	5.51	6.02	6.26	6.37	6.55	6.87
110°	4.70	5.66	6.13	6.42	6.69	6.91	7.15
120°	4.58	5.56	6.08	6.39	6.68	6.97	7.40
135°	4.21	5.12	5.85	6.21	6.50	6.79	7.38
150°	3.64	4.53	5.31	5.91	6.22	6.48	7.04
Run VMG	3.15	3.93	4.62	5.26	5.80	6.14	6.65
Gybe Angles	148.0°	152.0°	152.0°	162.0°	180.0°	180.0°	180.0°