



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **Est043**
Issued On **5/25/2020**
ORC Ref **035800010N**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 458kg
Maximum **458kg**
Minimum* **344kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **774.1 0.7751**
Non Spin OSN **748.2 0.8019**

Sails Limitations

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

Spinnaker configuration

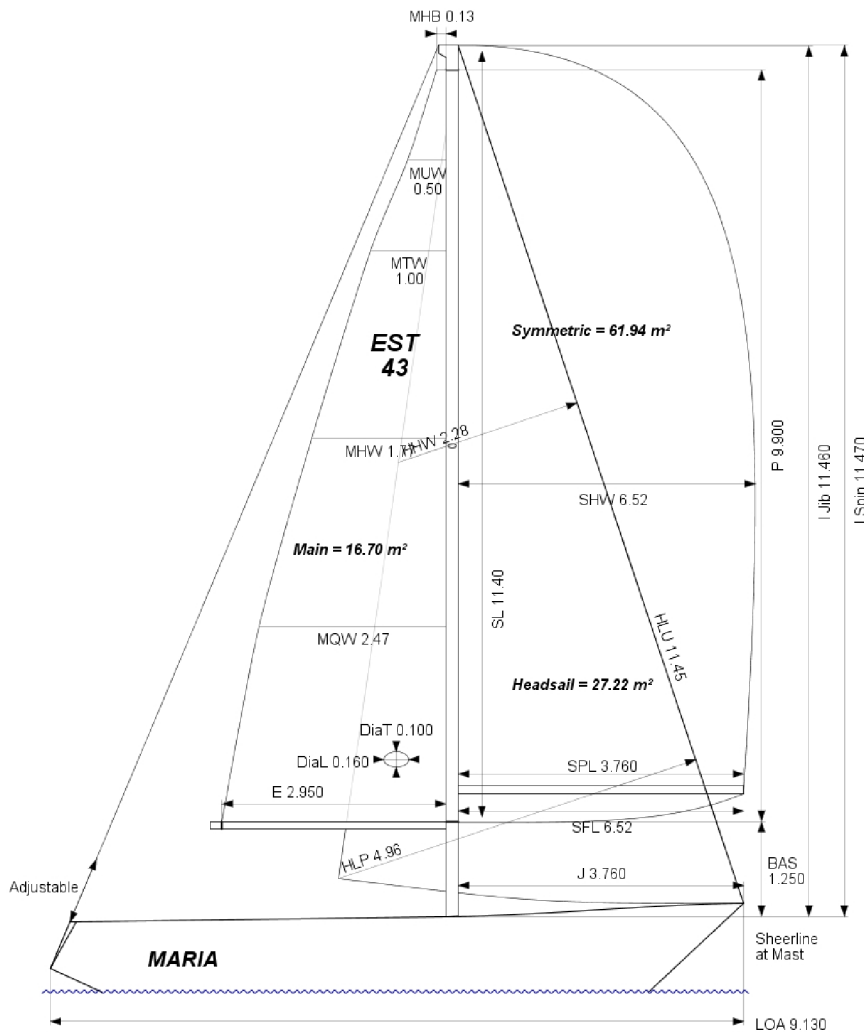
Symmetric: **Yes 61.94**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.627

Stability (Estimated)

Limit Positive Stab.: **115.8°**
Stability Index: **114.5**



BOAT		GPH		HULL					
Name MARIA		736.5		Data File Est0043		LOA 9.130m			
Sail Nr EST 43				Offset File GR0044.BOF		MB 3.058m			
				Displacement 3,495kg		Draft 1.561m			
CLASS				IMS Division Cruiser/Racer		Dynamic All. 0.427%			
Class CARTER 30				Plan Review		Construction Solid			
Designer				Fiber Rigging No		Aramid Core No			
Builder Teliga				Crew Arm Ex		Carbon Rudder No			
Series 01/1972						Light Stanchions No			
Age Date 01/1975				IMSL 7.332m		VCGD -0.155m		Sink 12.01kg/mm	
Age Allowance 0.487%				RL 5.922m		VCGM 0.050m		WS 17.20m²	
COMMENTS				LSM0 7.516m Displacement/Length ratio					
				Water Ballast Trim Tab No					
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Shaft exposed		PRD 0.381		N/A					
Type Folding 2 blades		PBW 0.125							
		PIPA 0.0044							
SCORING OPTIONS									
		COASTAL / LONG DISTANCE				WINDWARD / LEEWARD			
Time on Distance		714.7				795.5			
Time on Time		0.8395				0.8486			
Triple Number		Low	Medium	High	Low	Medium	High		
Time on Distance		845.3	651.9	583.8	1084.3	800.9	696.0		
Time on Time		0.7985	1.0355	1.1563	0.6225	0.8428	0.9698		

BOAT	
Name MARIA	Sail Nr EST 43
File Est0043	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 23/05/2020		SG	
FFM	FF	1.155	SFFP 0.500
FAM	FA	0.922	SAFP 8.786
LCF from stem on CL / on sheer		5.109 / 5.309	
Maximum beam station from stem		5.648	
RM Measured		51.8kg·m	
RM Default		50.3kg·m	
Limit of positive stability / Stab.Index		115.8° / 114.5	
Freeboard at mast at 3.760		0.994	



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2020
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	9.900	E	2.950	MDT1 0.100 MW
IG	11.460	J	3.760	MDL1 0.160 GO
ISP	11.470	SFJ		MDT2 0.100 BD
BAS	1.250	SPL	3.760	MDL2 0.160 MWT
FSD	-3.000	TPS		TL MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Shaft exposed	PRD	0.381
Type	Folding 2 blades	PBW	0.125
Twin Screw		PIPA	0.0044
PSA	15.000	PHL	0.080 ST3 0.082 ESL 0.584
PSD	0.025	ST1	0.020 ST4 0.063
PHD	0.078	ST2	0.070 ST5 0.159

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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	0.13	0.50	1.00	1.77	2.47	16.70										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.55	1.08	2.28	3.60	4.96	11.45	132%	27.22		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.40	11.40	11.40	6.52	6.52	61.94										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



2020

ORC Club Certificate Appendix

BOAT			
Name	MARIA	Certificate Number	Est043
Sail Nr	EST 43	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	1267.6	1064.8	945.8	867.7	835.7	826.0	835.7
52°	828.3	703.1	631.1	598.0	582.7	576.8	576.2
60°	784.1	665.0	608.0	582.6	568.0	560.0	557.1
75°	754.9	640.4	592.2	569.5	553.4	540.5	526.5
90°	763.1	634.1	579.2	556.2	545.8	532.9	506.9
110°	744.4	616.7	568.4	541.4	518.3	500.3	482.7
120°	764.0	628.9	573.2	544.4	519.1	496.4	465.8
135°	830.4	682.2	596.4	560.9	535.1	510.3	468.1
150°	963.8	773.2	657.7	591.0	560.1	536.4	492.0
Run VMG	1112.9	892.1	757.2	666.3	603.2	568.5	522.6
Selected Courses							
Windward / Leeward	1190.3	978.4	851.5	767.0	719.5	697.3	679.2
Circular Random	1013.7	819.1	714.5	654.0	617.5	594.9	569.8
Coastal / Long Distance	1182.5	917.8	766.6	673.6	626.8	593.7	542.1
Non Spinnaker	1080.3	866.6	750.1	681.6	639.6	613.3	584.1

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	43.1°	41.6°	42.0°	41.1°	40.1°	39.8°	40.5°
Beat VMG	2.84	3.38	3.81	4.15	4.31	4.36	4.31
52°	4.35	5.12	5.70	6.02	6.18	6.24	6.25
60°	4.59	5.41	5.92	6.18	6.34	6.43	6.46
75°	4.77	5.62	6.08	6.32	6.51	6.66	6.84
90°	4.72	5.68	6.22	6.47	6.60	6.75	7.10
110°	4.84	5.84	6.33	6.65	6.95	7.20	7.46
120°	4.71	5.72	6.28	6.61	6.94	7.25	7.73
135°	4.34	5.28	6.04	6.42	6.73	7.06	7.69
150°	3.74	4.66	5.47	6.09	6.43	6.71	7.32
Run VMG	3.23	4.04	4.75	5.40	5.97	6.33	6.89
Gybe Angles	148.0°	152.0°	152.0°	161.0°	180.0°	180.0°	180.0°