



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est343**
Issued On **5/18/2020**
ORC Ref **03580001FQ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 414kg
Maximum **414kg**
Minimum* **311kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	791.6	0.7580
Non Spin OSN	762.5	0.7869

Sails Limitations

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

Spinnaker configuration

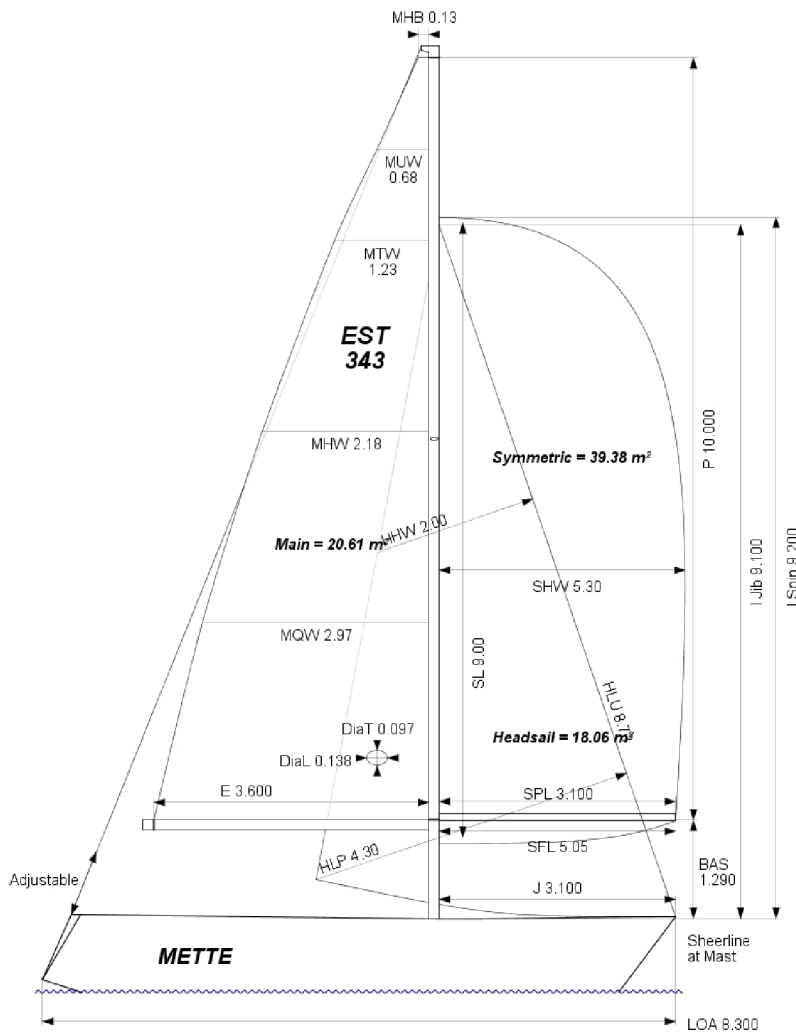
Symmetric: **Yes 39.38**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.332

Stability (Estimated)

Limit Positive Stab.: **118.0°**
Stability Index: **116.8**



BOAT		GPH		HULL		
Name METTE Sail Nr EST 343		762.3		Data File Est0343	LOA 8.300m	
				Offset File fenix3.off	MB 2.894m	
				Displacement 3,070kg	Draft 1.589m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0.494%				
Class	FENIX	Plan Review Construction Solid				
Designer	Pelle Petterson	Fiber Rigging No Aramid Core No				
Builder	Pelle Petterson AB	Crew Arm Ex Carbon Rudder No				
Series	01/1981	Light Stanchions No				
Age Date	01/1981	IMSL	7.084m	VCGD	0.073m	
Age Allowance	0.487%	RL	5.578m	VCGM	0.046m	
		WS	17.01m²	LSM0 6.997m Displacement/Length ratio		
COMMENTS		Water Ballast Trim Tab No				
		BLR Index 0.0000				
PROPELLER		CENTERBOARD				
Installation	Strut	PRD	0.340	N/A		
Type	Folding 2 blades	PIPA	0.0030			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	738.1			821.6		
Time on Time	0.8129			0.8216		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	888.6	671.7	590.3	1149.3	830.8	703.9
Time on Time	0.7596	1.0049	1.1434	0.5873	0.8125	0.9589

BOAT	
Name METTE	Sail Nr EST 343
File Est0343	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 21/10/2019		SG	
FFM	FF 0.984	SFFP	0.649
FAM	FA 1.012	SAFP	7.803
LCF from stem on CL / on sheer		4.581 / 4.777	
Maximum beam station from stem		5.374	
RM Measured		51.1kg·m	
RM Default		49.6kg·m	
Limit of positive stability / Stab.Index		118.0° / 116.8	
Freeboard at mast at 3.100		0.962	



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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	10.000	E	3.600	MDT1	0.097	MW	0.000
IG	9.100	J	3.100	MDL1	0.138	GO	0.000
ISP	9.200	SFJ		MDT2	0.000	BD	
BAS	1.290	SPL	3.100	MDL2	0.000	MWT	
FSD		TPS	0.000	TL	0.000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.340
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0030
ST1	0.048	ST3	0.170
ST2	0.170	ST4	0.098
		ST5	0.250
		EDL	1.600

Certificate	
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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	0.68	1.23	2.18	2.97	20.62										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.48	0.95	2.00	3.12	4.30	8.73	139%	18.06		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	9.00	9.00	9.00	5.30	5.05	39.38										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	METTE	Certificate Number	Est343
Sail Nr	EST 343	Issued On	5/18/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1336.9	1112.6	985.9	894.0	842.9	827.5	832.7
52°	865.7	730.2	651.2	609.6	588.9	579.8	577.5
60°	816.9	689.8	623.9	592.9	574.6	563.5	558.5
75°	784.5	662.7	605.6	579.6	561.4	546.0	528.0
90°	776.4	642.4	585.5	558.1	539.1	529.6	508.9
110°	773.9	639.4	583.0	554.2	528.6	505.7	476.7
120°	801.2	658.9	591.7	561.5	536.4	511.7	471.8
135°	896.4	727.9	625.9	581.2	554.4	529.7	484.8
150°	1040.6	822.8	695.2	615.4	578.0	553.3	507.7
Run VMG	1201.6	946.2	798.6	693.1	621.2	582.6	535.5
Selected Courses							
Windward / Leeward	1269.3	1029.4	892.3	793.6	732.0	705.1	684.1
Circular Random	1062.6	853.2	739.0	671.4	629.7	603.4	573.8
Coastal / Long Distance	1262.5	964.2	799.7	693.5	636.9	601.2	546.9
Non Spinnaker	1114.1	890.0	766.7	693.1	647.5	618.6	586.6

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°	42.8°	42.4°	41.6°	40.1°	39.9°	40.9°
Beat VMG	2.69	3.24	3.65	4.03	4.27	4.35	4.32
52°	4.16	4.93	5.53	5.91	6.11	6.21	6.23
60°	4.41	5.22	5.77	6.07	6.27	6.39	6.45
75°	4.59	5.43	5.94	6.21	6.41	6.59	6.82
90°	4.64	5.60	6.15	6.45	6.68	6.80	7.07
110°	4.65	5.63	6.18	6.50	6.81	7.12	7.55
120°	4.49	5.46	6.08	6.41	6.71	7.04	7.63
135°	4.02	4.95	5.75	6.19	6.49	6.80	7.43
150°	3.46	4.38	5.18	5.85	6.23	6.51	7.09
Run VMG	3.00	3.80	4.51	5.19	5.80	6.18	6.72
Gybe Angles	149.0°	154.0°	157.0°	170.0°	180.0°	180.0°	180.0°