



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST404**
Issued On **4/23/2019**
ORC Ref **EST00000483**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 530kg
Maximum **500kg**
Minimum* **375kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	699.1	0.8583
Double H.OSN	679.6	0.8829
Non Spin GPH	722.8	0.8301
Non Spin OSN	698.8	0.8586

Sails Limitations

Headsails **1** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 60.84**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7.619

Stability (Estimated)

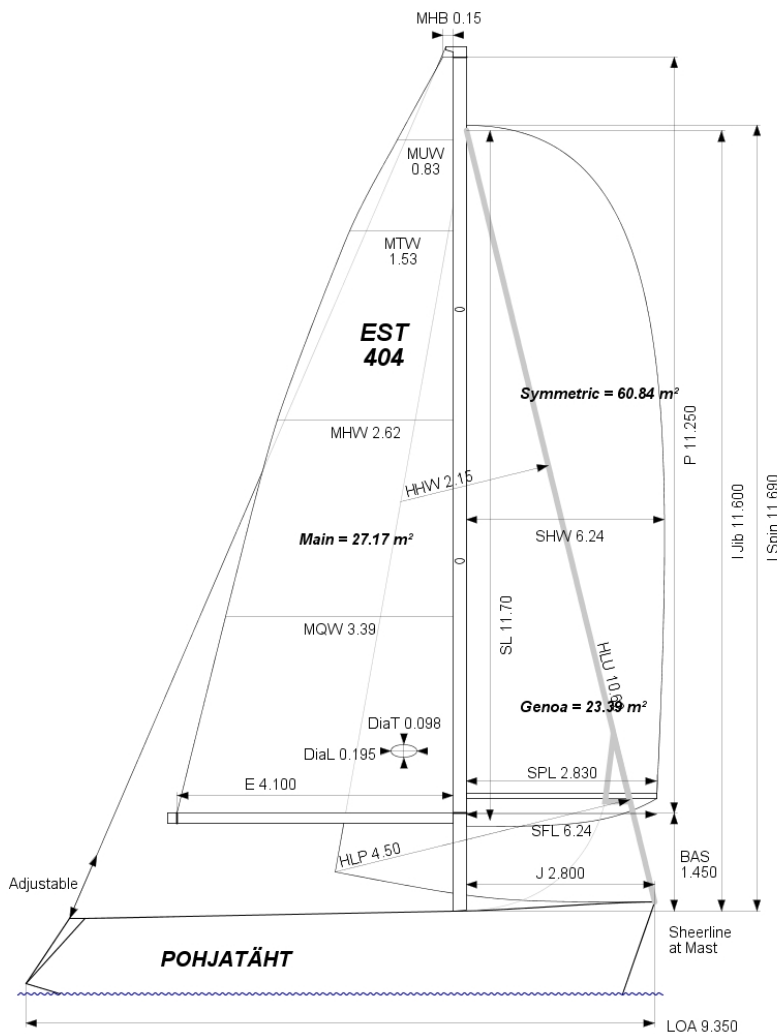
Limit Positive Stab.: **121.8°**
Stability Index: **121.4**

Owner

**MTÜ J/L PÖHJATÄHT SÕPRADE
KLUBI
Lääne 18A
Pärnu, Estonia
PJK**

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL		
Name	POHJATÄHT		691.9	Data File	Est0404 LOA 9.350m	
Sail Nr	EST 404			Offset File	BAVA30CL.OFF MB 3.290m	
				Displacement	4,400kg Draft 1.866m	
CLASS				IMS Division	Cruiser/Racer Dynamic All. 0.395%	
Class	Bavaria 30 CR			Fwd Accom.	Yes Construction Solid	
Designer				Fiber Rigging	No Aramid Core No	
Builder	Bavaria Yachtbau			Crew Arm Ex	No Carbon Rudder No	
Series	01/2005			Light Stanchions		
Age Date	05/2005			IMSL	8.325m VCGD 0.106m Sink 15.04kg/mm	
Age Allowance	0.455%			RL	6.911m VCGM 0.053m WS 19.97m²	
COMMENTS				LSM0	8.321m Displacement/Length ratio 7.6371	
				Water Ballast	0 Trim Tab No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation	Strut	PRD				
Type	Folding 2 blades	PIPA	0.0000	N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	671.9			746.1		
Time on Time	0.8930			0.9047		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	793.7	612.9	547.2	1022.0	752.1	650.0
Time on Time	0.8505	1.1014	1.2336	0.6605	0.8975	1.0385

BOAT	
Name POHJATÄHT	Sail Nr EST 404
File Est0404	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 26/05/2018		SG	
FFM	FF 1.346	SFFP	0.473
FAM	FA 1.125	SAFP	8.478
LCF from stem on CL / on sheer		5.026 / 5.285	
Maximum beam station from stem		5.650	
RM Measured		81.9kg·m	
RM Default		79.6kg·m	
Limit of positive stability / Stab.Index		121.8° / 121.4	
Freeboard at mast at 2.800		1.234	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		Runners 0
Inner Stay None Fitted	Jumper Struts None		Jib Furler Yes
Carbon Mast No	Main Furler No		Without Backstay No
Taper Hollows No	Articulated Bowsprit No		
Fiber Rigging No			
Lenticular Rigging No			
P 11.250	E 4.100	MDT1 0.098	MW 0.000
IG 11.600	J 2.800	MDL1 0.195	GO 0.000
ISP 11.690	SFJ	MDT2 0.000	BD
BAS 1.450	SPL 2.830	MDL2 0.000	MWT
FSP -3.000	TPS	TL -3.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0.0000	
ST1	ST3	ST5
ST2	ST4	EDL

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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					
2	0.15	0.83	1.53	2.62	3.39	27.17				Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.56	1.07	2.15	3.29	4.50	10.62	161%	23.40						Unknown	Unknow
3	0.06	0.51	0.97	2.00	3.07	4.16	10.45	149%	21.34						Unknown	Unknow
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.70	11.70	11.70	6.24	6.24	60.84				Unknown						
2	11.26	11.26	11.26	6.33	5.83	58.46				Unknown						
3	10.50	10.50	10.50	5.90	5.90	51.63										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2019

ORC Club Certificate Appendix

BOAT

Name	POHJATÄHT	Certificate Number	EST404
Sail Nr	EST 404	Issued On	4/23/2019

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1172.7	984.8	875.4	803.2	770.0	761.2	769.2
52°	768.5	655.9	590.3	560.2	545.9	540.0	539.1
60°	728.4	622.5	570.6	546.8	533.2	525.3	522.1
75°	699.9	598.5	556.5	535.7	520.6	508.5	494.2
90°	702.6	589.3	542.8	520.9	509.6	501.0	474.8
110°	697.7	581.6	537.6	513.0	490.9	471.1	450.9
120°	719.4	596.1	543.8	517.6	494.5	472.0	436.1
135°	790.0	652.1	568.5	533.9	510.7	487.9	445.6
150°	929.7	742.6	632.1	563.9	533.2	511.4	469.3
Run VMG	1073.6	856.9	727.6	637.0	575.5	540.8	498.2

Selected Courses

Windward / Leeward	1123.1	920.9	801.5	720.1	672.7	651.0	633.7
Circular Random	951.9	769.6	671.4	614.3	579.6	557.9	532.9
Coastal / Long Distance	1118.2	864.2	721.8	632.8	588.0	557.6	508.2
Non Spinnaker	1006.9	808.5	700.6	637.0	597.9	573.3	545.3

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	42.6°	40.9°	41.0°	40.1°	38.9°	38.6°	39.3°
Beat VMG	3.07	3.66	4.11	4.48	4.68	4.73	4.68
52°	4.68	5.49	6.10	6.43	6.59	6.67	6.68
60°	4.94	5.78	6.31	6.58	6.75	6.85	6.89
75°	5.14	6.02	6.47	6.72	6.92	7.08	7.28
90°	5.12	6.11	6.63	6.91	7.06	7.19	7.58
110°	5.16	6.19	6.70	7.02	7.33	7.64	7.98
120°	5.00	6.04	6.62	6.96	7.28	7.63	8.25
135°	4.56	5.52	6.33	6.74	7.05	7.38	8.08
150°	3.87	4.85	5.70	6.38	6.75	7.04	7.67
Run VMG	3.35	4.20	4.95	5.65	6.26	6.66	7.23
Gybe Angles	147.4°	152.1°	152.7°	160.3°	180.0°	180.0°	180.0°