



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est733**
Issued On **5/21/2020**
ORC Ref **035800001L1**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default	328kg
Maximum	330kg
Minimum*	245kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	750.6	0.7994
Non Spin OSN	726.6	0.8257

Sails Limitations

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

Spinnaker configuration

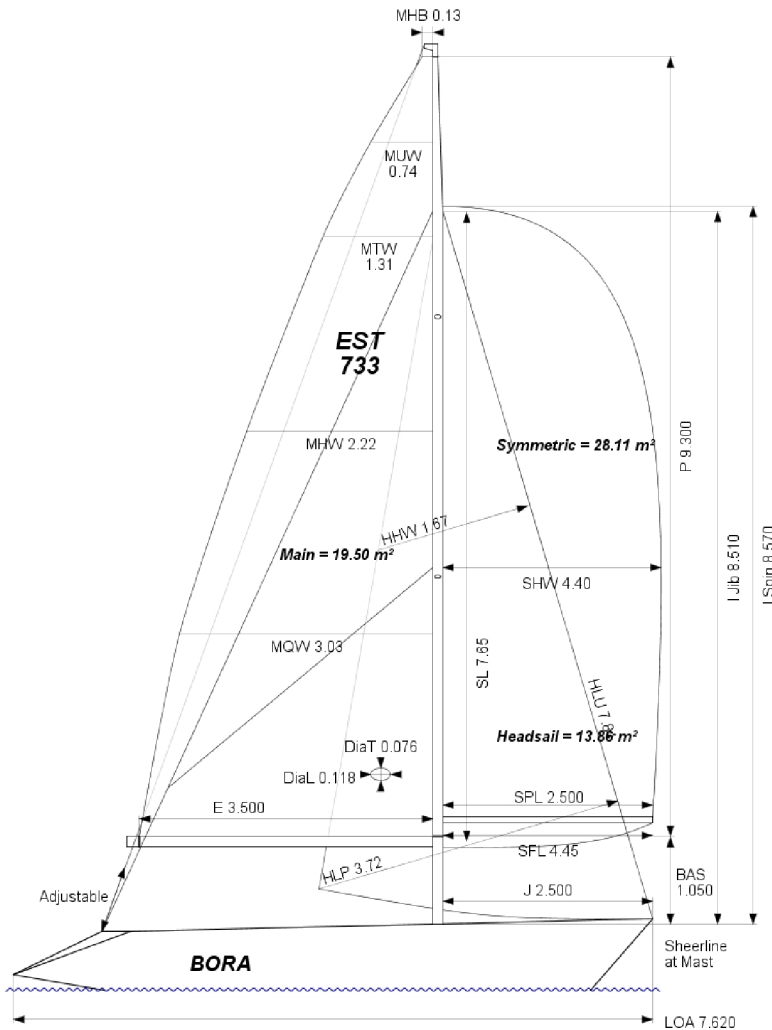
Symmetric: **Yes** **28.11**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.316

Stability (Estimated)

Limit Positive Stab.: **115.3°**
Stability Index: **107.6**



BOAT Name BORA Sail Nr EST 733		GPH 728.4	HULL Data File Est0733 LOA 7.620m Offset File G2.BOF MB 2.706m Displacement 1,686kg Draft 1.564m						
CLASS Class POLARIS Designer SET Builder SET Series 01/1984 Age Date Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.105% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.133m VCGD -0.176m Sink 8.19kg/mm RL 6.497m VCGM -0.065m WS 11.43m² LSM0 5.942m Displacement/Length ratio			Water Ballast Trim Tab No BLR Index 0.0000		
COMMENTS Kaal koos pãramootoriga		CENTERBOARD N/A							
PROPELLER Type No Propeller		SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD					
Time on Distance	707.9			782.8					
Time on Time	0.8476			0.8623					
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	825.9	647.6	583.1	1059.0	784.2	693.0			
Time on Time	0.8173	1.0423	1.1576	0.6374	0.8607	0.9740			

BOAT	
Name BORA	Sail Nr EST 733
File Est0733	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 15/10/2019		SG	
FFM	FF 0.835	SFFP	0.500
FAM	FA 0.642	SAFP	6.223
LCF from stem on CL / on sheer		3.999 / 4.197	
Maximum beam station from stem		4.630	
RM Measured		29.7kg·m	
RM Default		28.8kg·m	
Limit of positive stability / Stab.Index		115.3° / 107.6	
Freeboard at mast at 2.500		0.779	



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2020
Measurements
Datasheet

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	No		
P	9.300	E	3.500
IG	8.510	J	2.500
ISP	8.570	SFJ	
BAS	1.050	SPL	2.500
FSD		TPS	
MDT1	0.076	MW	
MDL1	0.118	GO	
MDT2	0.000	BD	
MDL2	0.000	MWT	
TL	-2.000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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COMMENTS	
Kaal koos pãramootoriga	

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	0.74	1.31	2.22	3.03	19.50	EST 7	02/05/2019								
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.42	0.81	1.67	2.67	3.72	7.84	149%	13.86	No	No	EST 7	02/05/2019			
2	0.06	0.38	0.69	1.40	2.20	3.11	7.98	124%	11.80	No	No	EST 7	02/05/2019			
3	0.06	0.33	0.62	1.30	2.03	2.79	6.36	112%	8.58	No	No	EST 7	02/05/2019			
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	7.65	7.65	7.65	4.40	4.45	28.12	EST 7	02/05/2019								
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



2020

ORC Club Certificate Appendix

BOAT			
Name	BORA	Certificate Number	Est733
Sail Nr	EST 733	Issued On	5/21/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1175.8	986.5	877.1	828.4	813.7	809.0	819.8
52°	778.7	664.5	619.9	599.0	588.3	583.4	582.0
60°	740.0	642.3	606.9	585.9	571.6	564.1	559.8
75°	714.6	628.5	596.1	572.7	552.4	537.4	524.8
90°	723.8	623.6	584.1	556.1	536.6	524.6	497.5
110°	737.6	625.8	583.4	550.6	522.0	498.3	469.1
120°	768.2	641.0	592.6	560.3	530.6	504.8	458.7
135°	858.1	699.8	620.7	583.8	552.7	524.4	475.6
150°	1000.7	796.2	675.0	613.8	580.5	551.2	500.9
Run VMG	1155.5	918.0	774.0	676.5	617.4	583.9	529.2
Selected Courses							
Windward / Leeward	1165.6	952.2	825.5	752.5	715.6	696.5	674.5
Circular Random	993.9	806.6	707.2	650.1	615.6	593.5	566.2
Coastal / Long Distance	1164.6	896.9	751.1	669.6	627.6	595.4	539.1
Non Spinnaker	1033.3	834.6	728.2	666.6	629.1	605.2	576.6

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	41.3°	41.3°	39.4°	37.7°	37.3°	37.1°	38.3°
Beat VMG	3.06	3.65	4.10	4.35	4.42	4.45	4.39
52°	4.62	5.42	5.81	6.01	6.12	6.17	6.19
60°	4.86	5.61	5.93	6.14	6.30	6.38	6.43
75°	5.04	5.73	6.04	6.29	6.52	6.70	6.86
90°	4.97	5.77	6.16	6.47	6.71	6.86	7.24
110°	4.88	5.75	6.17	6.54	6.90	7.22	7.67
120°	4.69	5.62	6.08	6.43	6.79	7.13	7.85
135°	4.20	5.14	5.80	6.17	6.51	6.87	7.57
150°	3.60	4.52	5.33	5.87	6.20	6.53	7.19
Run VMG	3.12	3.92	4.65	5.32	5.83	6.17	6.80
Gybe Angles	149.0°	153.0°	156.0°	180.0°	180.0°	180.0°	180.0°