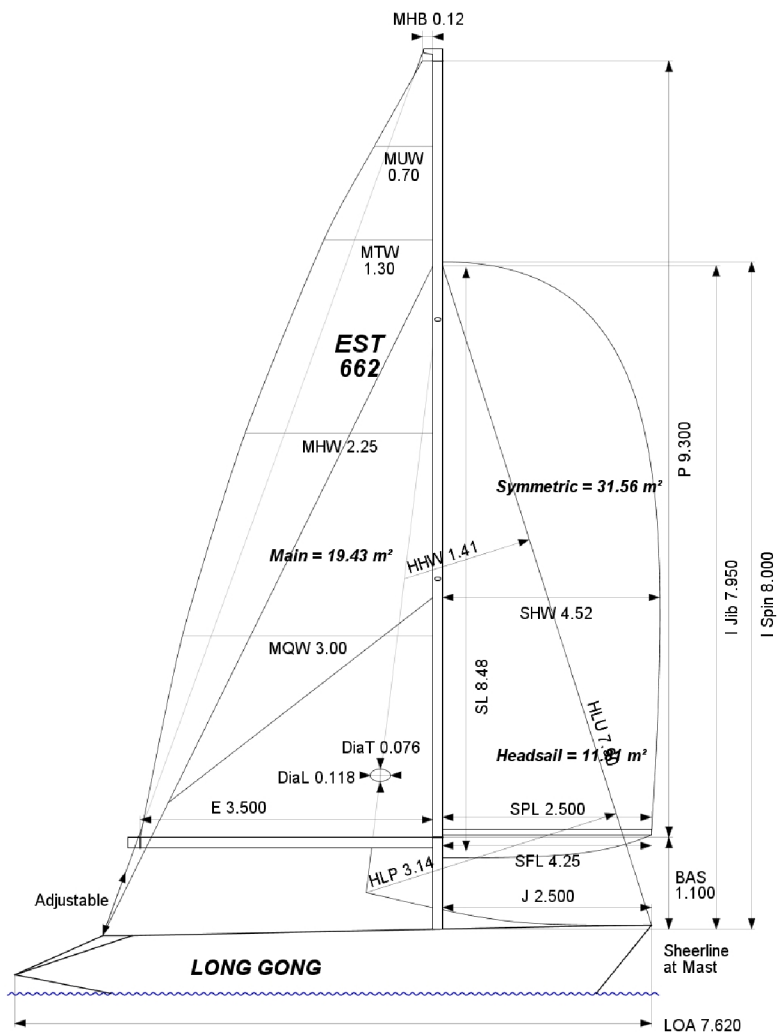




BOAT		GPH	HULL	
Name	Long Gong	734.5	Data File	EST662
Sail Nr	est662		LOA	7.620m
CLASS			Offset File	G2.BOF
Class	POLARIS		Displacement	1,625kg
Designer			MB	2.706m
Builder			Draft	1.558m
Series	01/1984		IMS Division	Performance
Age Date	06/2020		Plan Review	Dynamic All. 0.186%
Age Allowance	0.487%		Fiber Rigging	Construction Solid
COMMENTS			Crew Arm Ex	Aramid Core No
Outboard engine 25kg				Carbon Rudder No
PROPELLER				Light Stanchions No
Type No Propeller			IMSL	6.149m
			RL	6.325m
			LSM0	5.957m
			Displacement/Length ratio	
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			CENTERBOARD	
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	712.5			789.1		
Time on Time	0.8421			0.8554		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	841.5	651.4	578.0	1084.2	792.7	688.0
Time on Time	0.8021	1.0363	1.1679	0.6226	0.8515	0.9811



Rating Office
Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia



Certificate
 Number 050/20
 Issued On 05/06/2020
 ORC Ref 03880000K1H
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 329kg
 Maximum 420kg
 Minimum* 315kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 762.8 0.7866
 Non Spin OSN 735.6 0.8157

Sails Limitations
 Headsails 5 Spinnakers 4
 Woven Polyester

Spinnaker configuration
 Symmetric: Yes 31.56
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 6.232

Stability (Estimated)
 Limit Positive Stab.: 117.3°
 Stability Index: 109.6

BOAT Name Long Gong Sail Nr est662 File EST662 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 05/06/2020 SG 1.0245 VCGDe -0.200 FFM 0.810 FF 0.810 SFFP 0.500 FAM 0.671 FA 0.671 SAFF 6.223 LCF from stem on CL / on sheer 3.934 / 4.131 Maximum beam station from stem 4.630 RM Measured 28.7kg·m RM Default 27.8kg·m Limit of positive stability / Stab.Index 117.3° / 109.6 Freeboard at mast at 2.500 0.773	
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 MDT1 0.076 MW IG 7.950 J 2.500 MDL1 0.118 GO ISP 8.000 SFJ MDT2 0.000 BD BAS 1.100 SPL 2.500 MDL2 0.000 MWT FSD TPS TL MCG			
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller	
COMMENTS Outboard engine 25kg		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	0.12	0.70	1.30	2.25	3.00	19.43		26/05/2020	WB	Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.37	0.69	1.41	2.25	3.14	7.90	126%	11.81		No		26/05/2020		Dacron	
2	0.06	0.27	0.49	0.97	1.52	2.14	7.10	86%	7.28		No		26/05/2020		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	8.48	8.48	8.48	4.52	4.25	31.56		26/05/2020		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


ORC
Offshore Racing Congress
World leader in rating technology
2020
Measurements
Datasheet


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UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	Long Gong	Certificate Number	050/20
Sail Nr	est662	Issued On	05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1227.2	1030.2	908.9	839.6	811.1	802.8	808.4
52°	813.0	683.1	629.4	603.6	587.4	579.3	575.3
60°	771.5	656.0	613.6	590.0	571.6	559.2	551.7
75°	742.7	640.4	601.2	576.0	554.0	536.2	518.3
90°	729.3	622.0	580.8	550.6	529.5	519.4	495.0
110°	735.6	624.2	580.6	545.6	517.1	492.8	458.9
120°	765.9	639.0	590.3	555.3	524.4	498.1	448.5
135°	855.8	699.3	616.8	579.3	546.8	518.7	468.2
150°	1001.8	799.7	676.4	610.8	576.7	546.3	496.0
Run VMG	1156.8	922.4	775.4	674.5	615.6	581.4	525.5
Selected Courses							
Windward / Leeward	1192.0	976.3	842.2	757.0	713.3	692.1	667.0
Circular Random	1010.0	816.9	712.9	652.0	614.3	589.6	558.9
Coastal / Long Distance	1188.5	916.9	763.0	671.5	624.2	590.0	532.1
Non Spinnaker	1059.2	852.0	739.7	673.6	632.8	606.2	573.8

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°	42.0°	40.5°	38.1°	37.1°	36.8°	37.9°
Beat VMG	2.93	3.49	3.96	4.29	4.44	4.48	4.45
52°	4.43	5.27	5.72	5.96	6.13	6.21	6.26
60°	4.67	5.49	5.87	6.10	6.30	6.44	6.52
75°	4.85	5.62	5.99	6.25	6.50	6.71	6.95
90°	4.94	5.79	6.20	6.54	6.80	6.93	7.27
110°	4.89	5.77	6.20	6.60	6.96	7.31	7.85
120°	4.70	5.63	6.10	6.48	6.87	7.23	8.03
135°	4.21	5.15	5.84	6.21	6.58	6.94	7.69
150°	3.59	4.50	5.32	5.89	6.24	6.59	7.26
Run VMG	3.11	3.90	4.64	5.34	5.85	6.19	6.85
Gybe Angles	149.0°	154.0°	154.0°	174.0°	180.0°	180.0°	180.0°