



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **Est275**
Issued On **5/23/2019**
ORC Ref **EST0000584**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 451kg
Maximum **420kg**
Minimum* **315kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	733.7	0.8178
Double H.OSN	713.7	0.8407
Non Spin GPH	753.8	0.7960
Non Spin OSN	729.4	0.8226

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes** **51.12**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.855

Stability (Estimated)

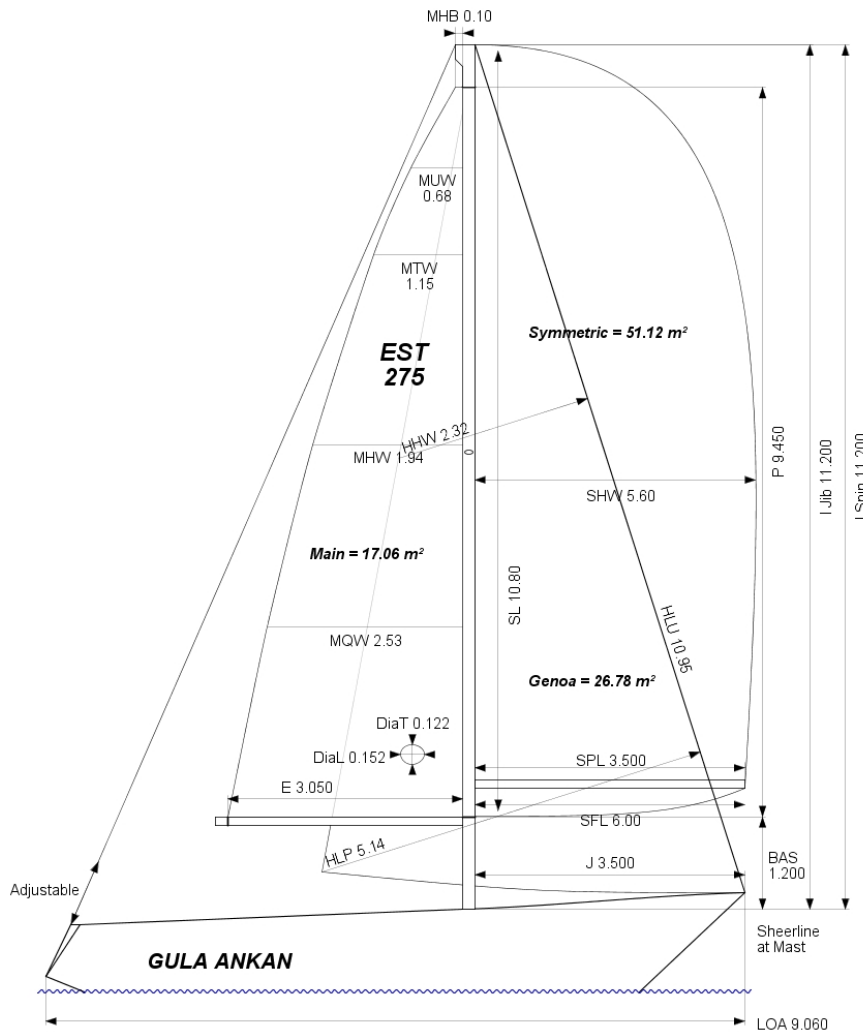
Limit Positive Stab.: **120.1°**
Stability Index: **116.7**

Owner

**Randel Kreitsberg
Raja 8, Elva
Estonia
PJK**

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

Signature



BOAT		GPH		HULL		
Name	GULA ANKAN			Data File	Est0275	
Sail Nr	EST 275			Offset File	US14080.OFF	
				Displacement	3,200kg	
				LOA	9.060m	
				MB	3.164m	
				Draft	1.684m	
				IMS Division	Cruiser/Racer	
				Dynamic All.	0.416%	
				Fwd Accom.	Yes	
				Construction	Solid	
				Fiber Rigging	No	
				Aramid Core	No	
				Carbon Rudder	No	
				Light Stanchions	No	
				IMSL	7.300m	
				VCGD	-0.038m	
				Sink	11.43kg/mm	
				RL	6.410m	
				VCGM	-0.016m	
				WS	16.59m²	
				LSM0	7.439m	
				Displacement/Length ratio	7.7733	
				Water Ballast	0	
				Trim Tab	0.0000	
				BLR Index	0.0000	
				CENTERBOARD		
				N/A		
				PROPELLER		
Installation	Strut	PRD	0.340			
Type	Folding 2 blades	PIPA	0.0005			
				SCORING OPTIONS		
				COASTAL / LONG DISTANCE		
				WINDWARD / LEEWARD		
Time on Distance				703.3		
Time on Time				0.8532		
Triple Number				Low	Medium	High
Time on Distance	826.0	642.6	578.8	Low	Medium	High
Time on Time	0.8172	1.0504	1.1663	0.6394	0.8619	0.9834

BOAT	
Name GULA ANKAN	Sail Nr EST 275
File Est0275	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 22/05/2019		SG	
FFM	FF	1.253	SFFP 0.689
FAM	FA	0.873	SAFP 8.616
LCF from stem on CL / on sheer		5.228 / 5.438	
Maximum beam station from stem		5.539	
RM Measured		47.6kg·m	
RM Default		46.2kg·m	
Limit of positive stability / Stab.Index		120.1° / 116.7	
Freeboard at mast at 3.500		1.066	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 9.450	E 3.050	MDT1 0.122	MW
IG 11.200	J 3.500	MDL1 0.152	GO
ISP 11.200	SFJ	MDT2	BD
BAS 1.200	SPL 3.500	MDL2	MWT
FSP 0.060	TPS 0.000	TL -3.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD	0.340	
Type Folding 2 blades	PBW		
Twin Screw	PIPA	0.0005	
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					
1	0.10	0.68	1.15	1.94	2.53	17.07										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.59	1.12	2.32	3.69	5.14	10.95	147%	26.79		N					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	10.80	10.80	10.80	5.60	6.00	51.12										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY					
Measurer					
Date					
Comment					
Id	Item	Weight	Distance	VCG	Description
Id	Item	Weight			Description

MEASUREMENT INVENTORY					
Id	Item	Weight	Distance	VCG	Description

2009

ORC Club Certificate Appendix

BOAT			
Name	GULA ANKAN	Certificate Number	Est275
Sail Nr	EST 275	Issued On	5/23/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1197.1	1008.1	894.5	834.0	812.5	804.8	815.1
52°	791.6	672.9	613.6	588.9	577.5	573.0	572.5
60°	753.1	642.6	596.9	576.1	563.8	557.1	554.5
75°	727.4	622.8	584.2	564.3	549.2	536.8	523.4
90°	737.7	627.2	578.5	555.4	543.4	528.1	502.6
110°	746.9	618.7	570.6	544.2	520.5	500.5	480.5
120°	768.5	633.5	576.3	548.0	522.6	499.0	465.2
135°	839.2	686.8	600.8	564.8	539.5	514.2	469.9
150°	971.5	776.5	662.2	594.5	563.4	540.0	494.3
Run VMG	1121.8	895.7	761.1	669.9	605.3	570.7	525.0
Selected Courses							
Windward / Leeward	1159.4	951.9	827.8	751.9	708.9	687.8	670.0
Circular Random	992.2	803.6	703.1	645.4	610.8	589.2	564.4
Coastal / Long Distance	1155.7	895.5	749.3	664.0	621.3	589.5	538.9
Non Spinnaker	1044.9	840.8	730.7	666.7	628.1	603.8	576.1

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	41.8°	40.4°	40.7°	39.4°	38.8°	38.8°	40.0°
Beat VMG	3.01	3.57	4.02	4.32	4.43	4.47	4.42
52°	4.55	5.35	5.87	6.11	6.23	6.28	6.29
60°	4.78	5.60	6.03	6.25	6.39	6.46	6.49
75°	4.95	5.78	6.16	6.38	6.55	6.71	6.88
90°	4.88	5.74	6.22	6.48	6.62	6.82	7.16
110°	4.82	5.82	6.31	6.62	6.92	7.19	7.49
120°	4.68	5.68	6.25	6.57	6.89	7.21	7.74
135°	4.29	5.24	5.99	6.37	6.67	7.00	7.66
150°	3.71	4.64	5.44	6.05	6.39	6.67	7.28
Run VMG	3.21	4.02	4.73	5.37	5.95	6.31	6.86
Gybe Angles	148.1°	152.0°	153.3°	162.1°	180.0°	180.0°	180.0°