



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **EST095**
Issued On **5/23/2020**
ORC Ref **03580000IN3**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 344kg
Maximum **435kg**
Minimum* **326kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **764.6 0.7847**
Non Spin OSN **739.2 0.8117**

Sails Limitations

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

Spinnaker configuration

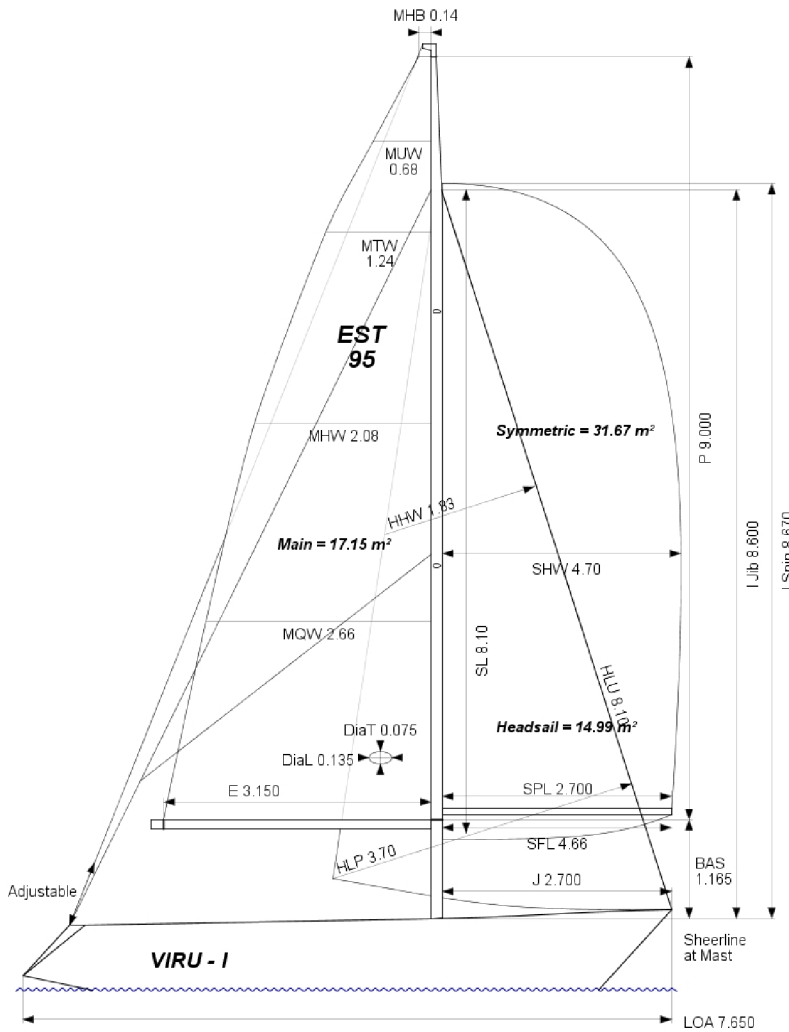
Symmetric: **Yes 31.67**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.290

Stability (Estimated)

Limit Positive Stab.: **107.1°**
Stability Index: **99.4**



BOAT		GPH		HULL					
Name VIRU - I		738.6		Data File Est0095	LOA 7.650m				
Sail Nr EST 95				Offset File C25_ST.OFF	MB 2.756m				
				Displacement 1,668kg	Draft 1.536m				
CLASS				IMS Division Performance		Dynamic All. 0.243%			
Class Conrad 25R				Plan Review		Construction Solid			
Designer Petterson				Fiber Rigging No		Aramid Core No			
Builder				Crew Arm Ex		Carbon Rudder No			
Series 01/1978				Light Stanchions					
Age Date 01/1982				IMSL 6.259m	VCGD 0.106m	Sink 8.48kg/mm			
Age Allowance 0.487%				RL 6.320m	VCGM 0.091m	WS 11.61m²			
COMMENTS				LSM0 6.152m Displacement/Length ratio					
Boat weight with engine Mercury Sail Power 4.0 hp				Water Ballast		Trim Tab No			
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Type No Propeller				N/A					
SCORING OPTIONS									
	COASTAL / LONG DISTANCE					WINDWARD / LEEWARD			
Time on Distance	717.3					792.2			
Time on Time	0.8365					0.8520			
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	836.8	657.1	591.2	1070.1	794.4	701.7			
Time on Time	0.8066	1.0273	1.1417	0.6308	0.8497	0.9619			

BOAT	
Name VIRU - I	Sail Nr EST 95
File Est0095	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date		SG	
FFM	FF	0.937	SFFP 0.556
FAM	FA	0.735	SAFP 6.920
LCF from stem on CL / on sheer		4.214 / 4.426	
Maximum beam station from stem		4.510	
RM Measured		28.6kg·m	
RM Default		27.7kg·m	
Limit of positive stability / Stab.Index		107.1° / 99.4	
Freeboard at mast at 2.700		0.843	



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	9.000	E	3.150
MDT1	0.075	MW	0.000
IG	8.600	J	2.700
MDL1	0.135	GO	0.000
ISP	8.670	SFJ	
MDT2	0.000	BD	
BAS	1.165	SPL	2.700
MDL2	0.000	MWT	
FSD	-3.000	TPS	
TL	-2.000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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COMMENTS	
Boat weight with engine Mercury Sail Power 4.0 hp	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1a	0.14	0.68	1.24	2.08	2.66	17.15	EST 1	20/05/2015		Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.49	0.92	1.83	2.77	3.70	8.10	137%	14.99	No		EST 1	22/05/2015		Unknow	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1a	8.10	8.10	8.10	4.70	4.66	31.68	EST 1	21/05/2015		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



2020

ORC Club Certificate Appendix

BOAT			
Name	VIRU - I	Certificate Number	EST095
Sail Nr	EST 95	Issued On	5/23/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1199.2	1010.1	898.2	840.0	822.6	817.5	830.7
52°	795.6	677.3	631.4	609.6	597.3	592.4	591.6
60°	757.2	654.2	617.4	596.7	581.4	573.2	569.4
75°	731.9	641.6	606.5	583.6	563.4	547.3	533.6
90°	741.8	634.5	593.4	565.2	544.5	533.9	506.9
110°	746.7	634.9	592.4	559.2	529.1	504.5	475.4
120°	774.0	648.6	600.9	569.1	538.5	510.5	464.0
135°	858.3	703.9	627.2	591.1	560.6	531.3	479.8
150°	998.2	797.2	678.9	620.3	588.0	559.3	506.9
Run VMG	1152.6	918.8	778.2	682.2	624.7	592.1	537.6
Selected Courses							
Windward / Leeward	1175.9	964.4	838.2	761.1	723.6	704.8	684.1
Circular Random	1007.2	817.9	717.2	659.4	624.2	601.8	574.3
Coastal / Long Distance	1173.6	908.3	762.6	678.8	636.0	603.4	547.3
Non Spinnaker	1052.7	850.3	741.8	678.9	640.5	615.9	587.0

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°	39.8°	37.5°	36.9°	37.1°	38.3°
Beat VMG	3.00	3.56	4.01	4.29	4.38	4.40	4.33
52°	4.53	5.32	5.70	5.91	6.03	6.08	6.09
60°	4.75	5.50	5.83	6.03	6.19	6.28	6.32
75°	4.92	5.61	5.94	6.17	6.39	6.58	6.75
90°	4.85	5.67	6.07	6.37	6.61	6.74	7.10
110°	4.82	5.67	6.08	6.44	6.80	7.14	7.57
120°	4.65	5.55	5.99	6.33	6.68	7.05	7.76
135°	4.19	5.11	5.74	6.09	6.42	6.78	7.50
150°	3.61	4.52	5.30	5.80	6.12	6.44	7.10
Run VMG	3.12	3.92	4.63	5.28	5.76	6.08	6.70
Gybe Angles	149.0°	153.0°	156.0°	180.0°	180.0°	180.0°	180.0°