



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST633**
Issued On **5/1/2018**
ORC Ref **EST00000083**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight

Default 644kg
Maximum **690kg**
Minimum* **518kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	631.2	0.9506
Double H.OSN	614.2	0.9769
Non Spin GPH	661.2	0.9074
Non Spin OSN	639.2	0.9387

Sails Limitations

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

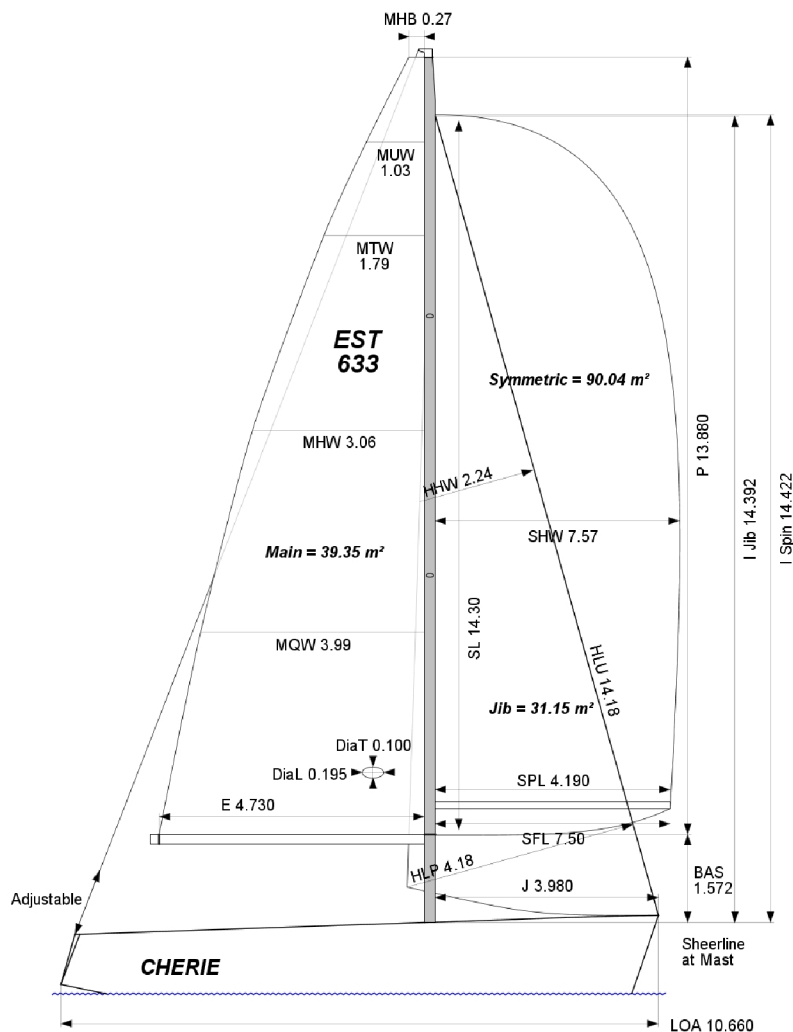
Spinnaker configuration
Symmetric: **Yes** **90.04**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.174

Stability (Measured)

Limit Positive Stab.: **121.3°**
Stability Index: **121.2**



BOAT	GPH	HULL
Name Cherie Sail Nr EST 633	627.3	Data File Est0633 LOA 10.660m Offset File F242.OFF MB 3.636m Displacement 5,631kg Draft 2.202m
CLASS Class First 35 Designer Farr Builder Beneteau Series 08/2009 Age Date 04/2010 Age Allowance 0.292%		IMS Division Cruiser/Racer Dynamic All. 0.193% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions
COMMENTS		IMSL 9.716m VCGD 0.046m Sink 19.32kg/mm RL 8.632m VCGM 0.045m WS 26.12m² LSM0 9.544m Displacement/Length ratio 6.4773
PROPELLER Installation Strut PRD 0.434 Type Folding 2 blades PIPA 0.0030		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	607.9	677.4
Time on Time	0.9871	0.9965
Triple Number	Low Medium High	Low Medium High
Time on Distance	723.2 553.9 494.5	931.7 680.2 590.1
Time on Time	0.9333 1.2187 1.3649	0.7245 0.9924 1.1439

BOAT	
Name Cherie	Sail Nr EST 633
File Est0633	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 06/05/2010		SG 1.0020	
FFM 1.396	FF 1.409	SFFP 0.422	
FAM 1.072	FA 1.076	SAFP 10.320	
W1 80.0	PD1 501.3	WD 9.990	
W2 80.0	PD2 501.7	GSA 1.0	
W3 80.0	PD3 500.2	RSA 1.0	
W4 80.0	PD4 498.6	PLM 9000.0	
LCF from stem on CL / on sheer		5.852 / 6.108	
Maximum beam station from stem		6.761	
RM Measured		125.8kg·m	
RM Default		134.0kg·m	
Limit of positive stability / Stab.Index		121.3° / 121.2	
Freeboard at mast at 3.980		1.280	



2018
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	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 13.880	E 4.730	MDT1 0.100	MW 0.180
IG 14.392	J 3.980	MDL1 0.195	GO 0.195
ISP 14.422	SFJ 0.000	MDT2 0.090	BD
BAS 1.572	SPL 4.190	MDL2 0.145	MWT 124.00
FSP 0.066	TPS	TL 0.780	MCG 4.080

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.434		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0030		
ST1 0.035	ST3 0.180	ST5 0.280	
ST2 0.180	ST4 0.100	EDL 2.030	

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					
4a	0.270	1.03	1.79	3.06	3.99	39.35	EST 7	01/05/2018	NorthSails	Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6a	0.10	0.66	1.24	2.24	3.22	4.18	14.18	105%	31.16			EST 7	01/05/2018	NorthSails	Unknow	Light
SYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	14.30	14.30	14.30	7.57	7.50	90.04	Hemamali	06/11/2017		Unknown	light					
3	14.24	14.24	14.24	7.55	7.47	89.40	EST 2	09/05/2011	North	Unknown	valge					
2	14.30	14.30	14.30	7.50	7.50	89.38		11/02/2010	North	Unknown	S4					
1	14.30	14.30	14.30	7.50	7.50	89.38		11/02/2010	North	Unknown	S2					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer Veiko Rosme EST 2				
Date 06/05/2010				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	42.0		center-area
4	Tools	40.0	5.90	starboard
Id	Item	Maker	Model	
1	Engine	YANMAR	3YM30	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Water	plastic	100.0	4.60			0-0 portside
2	Tank	Water	plastic	100.0	4.60			0-0 starboard
3	Tank	Fuel	plastic	75.0	8.65			0-0 center
4	Tank	Waste	plastic	80.0	8.50			0-0 starboard
Id	Item	Weight	Distance	VCG Description				
1	Battery		8.20	90 Ah portside				
2	Battery		6.60	70 Ah engine room				
1	Misc		4.50	Water Heater Nautic Boiler 25 LI				



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ORC Club Certificate Appendix

BOAT	
Name	Cherie
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Sail Nr	EST 633
Issued On	5/1/2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1066.3	879.2	771.6	718.7	702.0	696.3	685.9
52°	703.0	588.1	528.5	505.2	496.9	493.4	489.4
60°	667.2	561.5	513.4	493.3	483.6	479.6	477.9
75°	640.8	543.5	503.0	483.0	469.0	458.9	451.5
90°	646.7	535.5	493.4	477.4	463.6	448.0	424.8
110°	639.7	528.6	486.1	461.7	440.2	427.0	407.8
120°	658.1	541.0	492.1	465.6	441.1	418.5	389.2
135°	726.7	590.1	516.1	483.2	459.3	435.0	389.3
150°	860.6	682.1	576.3	513.8	483.6	461.2	417.0
Run VMG	993.8	787.6	664.9	585.0	530.2	494.0	449.5
Selected Courses							
Windward / Leeward	1030.0	833.4	718.2	651.8	616.1	595.1	567.7
Circular Random	867.5	698.6	608.1	556.0	524.4	503.8	477.6
Coastal / Long Distance	1026.4	782.7	648.1	572.0	534.1	504.7	457.0
Non Spinnaker	928.7	741.8	640.1	580.6	544.2	520.7	491.7

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	42.4°	41.0°	40.9°	39.0°	38.4°	38.2°	38.7°
Beat VMG	3.38	4.09	4.67	5.01	5.13	5.17	5.25
52°	5.12	6.12	6.81	7.13	7.25	7.30	7.36
60°	5.40	6.41	7.01	7.30	7.44	7.51	7.53
75°	5.62	6.62	7.16	7.45	7.68	7.84	7.97
90°	5.57	6.72	7.30	7.54	7.76	8.04	8.47
110°	5.63	6.81	7.41	7.80	8.18	8.43	8.83
120°	5.47	6.65	7.32	7.73	8.16	8.60	9.25
135°	4.95	6.10	6.98	7.45	7.84	8.28	9.25
150°	4.18	5.28	6.25	7.01	7.44	7.81	8.63
Run VMG	3.62	4.57	5.41	6.15	6.79	7.29	8.01
Gybe Angles	145.1°	149.5°	151.2°	157.1°	174.7°	180.0°	180.0°