



2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate
Number **00258**
Issued On **26/06/2020**
ORC Ref **03420000LIT**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	634kg
Maximum	650kg
Minimum*	488kg

**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 678.0	0.8850
Non Spin OSN 656.0	0.9147

Sails Limitations

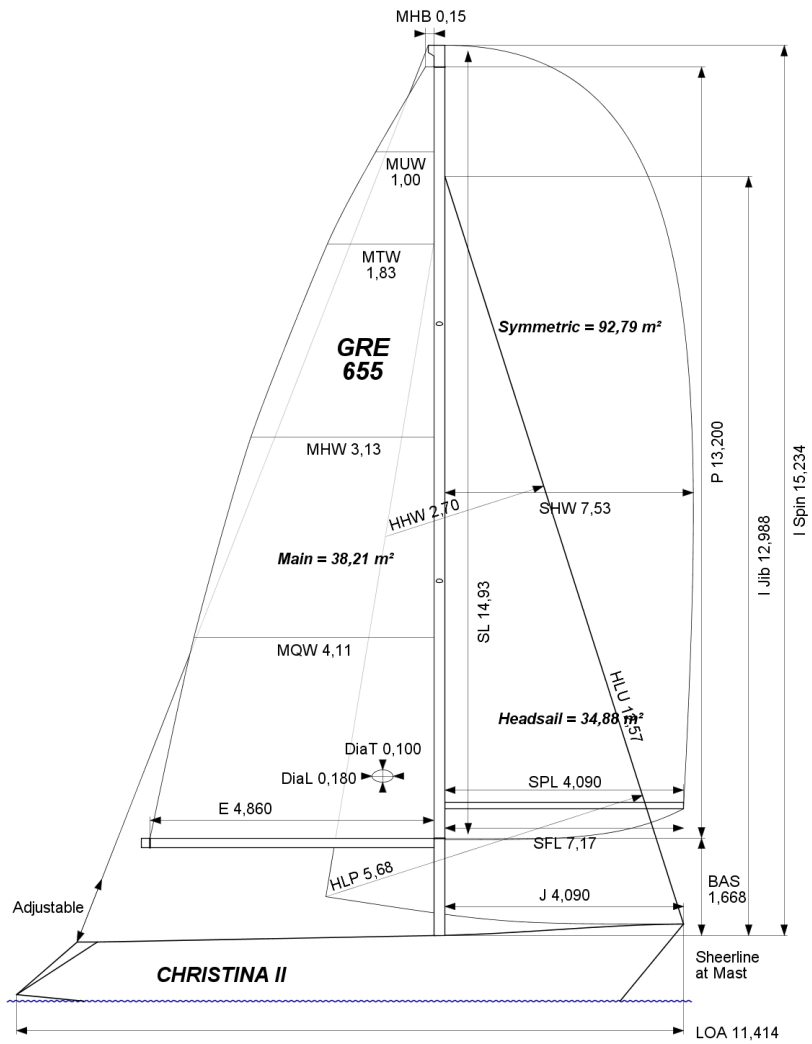
Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **92.79**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **8.862**

Stability (Measured)
Limit Positive Stab.: **107.2°**
Stability Index: **107.9**

Owner



BOAT Name CHRISTINA II Sail Nr GRE-655		GPH 643.2	HULL Data File GR655 LOA 11.414m Offset File H104M.BOF MB 3.776m Displacement 6,458kg Draft 1.968m					
CLASS Class DEHLER 38 (SD) Designer VAN DE STADT Builder DEHLER Series 01/1988 Age Date 01/1988 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.259% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			IMSL 9.705m VCGD 0.084m Sink 19.89kg/mm RL 8.021m VCGM 0.161m WS 27.09m² LSM0 9.438m Displacement/Length ratio 7.6817		
COMMENTS ex "IRIS", ex "IRIS II"			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD N/A		
PROPELLER Installation Shaft exposed PRD 0.430 Type Folding 2 blades PBW 0.110 PIPA 0.0059								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	623.4			694.8				
Time on Time	0.9624			0.9715				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	744.4	567.8	504.0	963.0	700.8	600.8		
Time on Time	0.9068	1.1889	1.3392	0.7009	0.9632	1.1235		

BOAT	
Name CHRISTINA II	Sail Nr GRE-655
File GR655	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 03/04/1999	SG 1.0270	
FFM 1.285	FF 1.308	SFFP 0.343
FAM 0.942	FA 0.940	SAFP 10.031
W1 20.0	PD1 58.0	WD 11.600
W2 40.0	PD2 116.0	GSA 28.3
W3 60.0	PD3 174.0	RSA 5026.5
W4 80.0	PD4 232.0	PLM 2000.0
LCF from stem on CL / on sheer		6.308 / 6.558
Maximum beam station from stem		6.870
RM Measured		139.2kg-m
RM Default		138.7kg-m
Limit of positive stability / Stab.Index		107.2° / 107.9
Freeboard at mast at 4.090		1.124



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2020
Measurements
Datasheet

RIG			
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2
Inner Stay None Fitted	Main Furler No		Jib Furler No
Carbon Mast No	Articulated Bowsprit No		Fiber Rigging No
Non-Circular Rigging No			
P 13.200	E 4.860	MDT1 0.100	MW 0.180
IG 12.988	J 4.090	MDL1 0.180	GO 0.180
ISP 15.234	SFJ 0.000	MDT2 0.100	BD 0.165
BAS 1.668	SPL 4.090	MDL2 0.180	MWT
FSD 0.006	TPS	TL 0.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft exposed	PRD 0.430	Type Folding 2 blades
Twin Screw No	PBW 0.110	PIPA 0.0059
PSA 20.000	PHL 0.123	ST3 0.120
PSD 0.030	ST1 0.034	ST4 0.061
PHD 0.068	ST2 0.120	ST5 0.310

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COMMENTS	
ex "IRIS", ex "IRIS II"	

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	0.15	1.00	1.83	3.13	4.11	38.22		24/04/2019	QUANTUM	Kevlar	ARAMID					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.70	1.35	2.70	4.15	5.68	12.57	139%	34.88		No		05/07/2018	QUANTUM	Kevlar	
1	0.05	0.53	1.01	2.04	3.15	4.37	12.76	107%	26.94		No		27/09/2011		Polyest	
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	14.93	14.93	14.93	7.53	7.17	92.79		08/05/2019	QUANTUM	Nylon	AP RUNNER					
2	14.95	14.95	14.95	7.36	7.10	91.05		05/07/2018	QUANTUM	Nylon	0.5					
1	14.90	14.90	14.90	7.23	7.20	89.70		24/07/2012	ZOUGANELI	Nylon						
3	12.90	12.90	12.90	6.86	6.75	73.51		18/03/2017		Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-7				
Date 03/04/1999				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	15.0	0.80	Bruce
2	Anchor	10.0	10.70	Danforth
4	Chain	72.0	0.80	60m
2	Chain	48.0	10.70	40m
4	Tools	5.0	6.40	
Id	Item	Maker	Model	
1	Engine	YANMAR	3HM35F	
Id	Item	Weight	Description	
4	Deck-Gear	6.0		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank Fuel		Inox	90.0	4.80		0-0
2	Tank Water		PVC	400.0	6.90		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	70.0	7.30	2 x 150Ah			
2	Battery	20.0	5.30	1 x 80Ah			
1	Misc	6.0	8.20	Boiler			

2020

ORC Club Certificate Appendix

BOAT	
Name	CHRISTINA II
Sail Nr	GRE-655
Certificate Number	00258
Issued On	26/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1122.4	927.7	815.4	745.6	717.5	705.5	702.7
52°	725.7	611.7	545.5	515.7	502.9	497.7	494.4
60°	682.2	579.1	526.1	502.6	490.3	484.0	479.6
75°	652.3	554.9	512.4	491.8	477.7	466.8	455.0
90°	659.3	548.8	501.7	483.9	473.0	458.8	435.4
110°	650.5	538.0	493.8	470.3	450.8	437.0	419.3
120°	669.8	550.4	499.1	473.6	451.4	430.6	402.8
135°	739.6	601.4	523.4	489.4	466.8	444.7	404.0
150°	869.8	691.0	586.1	521.3	490.1	468.9	428.3
Run VMG	1004.3	797.9	676.1	594.6	538.3	500.7	458.2
Selected Courses							
Windward / Leeward	1063.4	862.8	745.8	670.1	627.9	603.1	580.4
Circular Random	891.6	717.5	623.6	568.9	535.4	514.0	489.0
Coastal / Long Distance	1057.5	808.7	670.1	585.9	544.1	513.3	466.6
Non Spinnaker	954.9	762.1	656.5	593.9	555.1	530.2	501.0

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	43.5°	42.4°	41.6°	40.7°	39.6°	39.0°	39.8°
Beat VMG	3.21	3.88	4.41	4.83	5.02	5.10	5.12
52°	4.96	5.89	6.60	6.98	7.16	7.23	7.28
60°	5.28	6.22	6.84	7.16	7.34	7.44	7.51
75°	5.52	6.49	7.03	7.32	7.54	7.71	7.91
90°	5.46	6.56	7.18	7.44	7.61	7.85	8.27
110°	5.53	6.69	7.29	7.65	7.99	8.24	8.59
120°	5.38	6.54	7.21	7.60	7.97	8.36	8.94
135°	4.87	5.99	6.88	7.36	7.71	8.09	8.91
150°	4.14	5.21	6.14	6.91	7.34	7.68	8.40
Run VMG	3.58	4.51	5.32	6.05	6.69	7.19	7.86
Gybe Angles	145.0°	150.0°	151.5°	156.5°	174.0°	180.0°	180.0°