

BOAT Name CYCLADES FORCE Sail Nr GRE-8041	GPH 692.3	HULL Length Overall 9.190m Maximum Beam 3.230m Displacement 2,622kg Draft 1.657m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.010% Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 7.356m VCGD -0.038m Sink 11.06kg/mm RL 6.589m VCGM 0.097m WS 15.63m² LSM0 7.310m Displacement/Length ratio 6.7124
GENERAL Class FIRST EVOLUTION ST Designer JEAN BERRET Builder BENETEAU Series 04/1980 Age 04/1980 Age Allowance 0.487% Offset File 1STEVST.OFF - 14/04/2016 12:24:38 Measurement by - 18/02/2001		



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Rating Office
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Ανοικτής Θαλάσσης
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	676.1			757.0		
Time on Time	0.8874			0.8917		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	779.6	616.3	560.7	1005.4	757.6	676.5
Time on Time	0.8658	1.0953	1.2039	0.6714	0.8910	0.9978

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1114.1	933.6	848.0	822.7	815.3	815.9	824.9
52°	735.3	623.7	583.1	570.2	565.2	563.5	562.0
60°	694.9	600.3	567.3	553.3	547.1	544.4	542.8
75°	663.6	584.3	553.8	534.5	521.5	514.8	510.6
90°	671.3	582.5	549.1	526.1	506.5	491.8	477.7
110°	702.6	586.2	543.2	512.8	487.8	469.9	451.0
120°	728.6	600.4	550.2	518.1	490.0	466.5	430.3
135°	808.0	659.1	576.7	539.9	509.6	482.2	434.0
150°	952.0	757.3	638.2	571.8	538.4	510.0	461.2
Run VMG	1099.3	874.3	734.7	641.6	580.0	545.1	491.9

Certificate
Number **00274**
ORC Ref **03420000F9E**
Issued On **27/03/2020**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight
Default **440kg**
Maximum **380kg**
Minimum* **285kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **712.1 0.8426**
Non Spin OSN **693.8 0.8648**

Selected Courses							
Windward / Leeward	1106.7	903.9	791.3	732.1	697.7	680.5	658.4
Circular Random	940.5	764.5	672.1	620.1	589.3	569.9	546.5
Coastal / Long Distance	1106.0	850.2	715.6	642.1	601.9	570.1	516.6
Non Spinnaker	975.5	789.4	690.8	634.8	601.3	580.2	555.0

Sails Limitations
Headsails **5** Spinnakers **4**
Woven Polyester

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	42.0°	42.0°	40.5°	40.5°	40.5°	40.9°	42.2°
Beat VMG	3.23	3.86	4.25	4.38	4.42	4.41	4.36
52°	4.90	5.77	6.17	6.31	6.37	6.39	6.41
60°	5.18	6.00	6.35	6.51	6.58	6.61	6.63
75°	5.43	6.16	6.50	6.73	6.90	6.99	7.05
90°	5.36	6.18	6.56	6.84	7.11	7.32	7.54
110°	5.12	6.14	6.63	7.02	7.38	7.66	7.98
120°	4.94	6.00	6.54	6.95	7.35	7.72	8.37
135°	4.46	5.46	6.24	6.67	7.06	7.47	8.30
150°	3.78	4.75	5.64	6.30	6.69	7.06	7.81
Run VMG	3.27	4.12	4.90	5.61	6.21	6.60	7.32
Gybe Angles	148.0°	152.0°	152.0°	164.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **6.967**

Storm Sails Areas
Heavy Weather Jib **13.82**
Storm Jib (JL=6.58) **5.12**
Storm Trysail **7.77**

Owner

BOAT	
Name CYCLADES FORCE	Sail Nr GRE-8041
File GR8041	Data in meters/kilograms

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 10.800	E 4.108 MDT1 0.093 MW 0.105
IG 10.037	J 3.150 MDL1 0.105 GO 0.130
ISP 10.053	SFJ 0.000 MDT2 0.062 BD 0.110
BAS 1.273	SPL 3.153 MDL2 0.080 MWT
FSD 0.032	TPS TL 2.040 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 05/05/2000		SG 1.0270	
FFM 0.908	FF 0.917	SFFP 0.596	
FAM 0.850	FA 0.862	SAFP 8.482	
W1 33.9	PD1 211.0	WD 9.300	
W2 33.9	PD2 211.0	GSA 28.3	
W3 33.9	PD3 211.0	RSA 5674.5	
W4 33.9	PD4 211.0	PLM 1660.0	
LCF from stem on CL / on sheer		4.830 / 5.030	
Maximum beam station from stem		5.572	
RM Measured		43.2kg-m	
RM Default		50.7kg-m	
Limit of positive stability / Stab.Index		116.6° / 110.2	
Freeboard at mast at 3.150		1.058	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.393		
Type Folding 2 blades	PBW 0.099		
Twin Screw No	PIPA 0.0029		
PSA 17.800	PHL 0.107	ST3 0.088	ESL 0.745
PSD 0.022	ST1 0.023	ST4 0.042	
PHD 0.051	ST2 0.088	ST5 0.170	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.15	0.89	1.54	2.59	3.43	26.22 26.83 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	10.03	10.03	10.03	5.76	5.44	47.61 SL · (SFL + 4·SHW) / 6
Asymmetric						
Not Available						

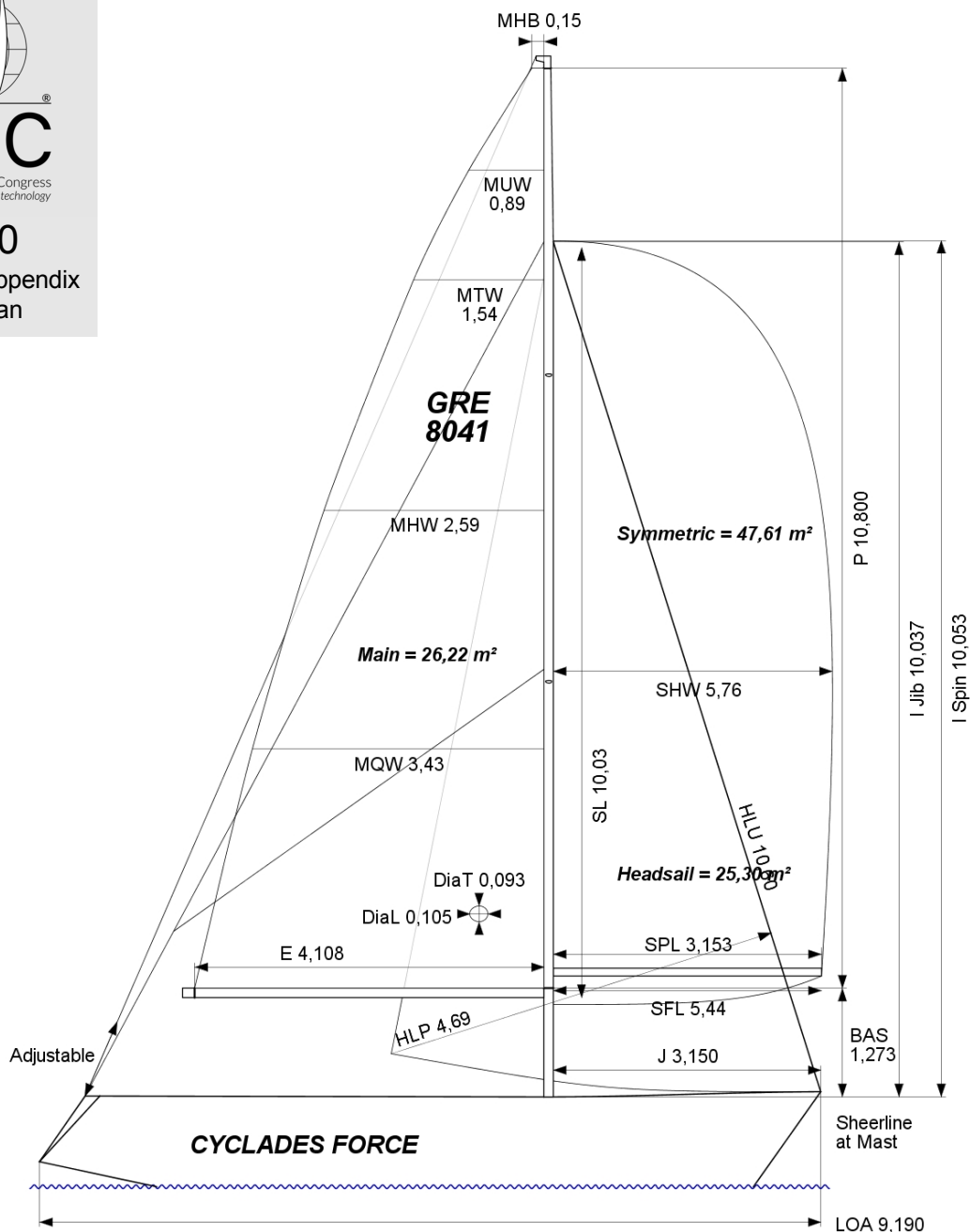
HEADSAILS											
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)											
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area Btn	Flying	Meas.Date	Material	Comment
					4.69	0.00	25.30	No			* Copied from legacy *

MEASUREMENT INVENTORY				
Measurer GRE-11				
Date 05/05/2000				
Comment				
Internal Ballast total = 303.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40.0	5.40	Danforth
2	Anchor	40.0	5.20	Grapnel
4	Chain	45.0	5.40	30m
2	Chain	30.0	5.20	20m
4	Tools	5.0	5.20	
Id	Item	Maker	Model	
1	Engine	Yanmar	7HP	
Id	Item	Weight	Description	
4	Deck-Gear	10.0		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
1	Tank Fuel		St. Steel	10.0	4.10	40.0
2	Tank Water		PVC soft	50.0	5.20	0.0
Id	Item	Weight	Distance	VCG Description		
a	Ballast	100.0	3.20	10pcs x 10kg lead		
b	Ballast	40.0	3.40	4pcs x 10kg lead		
c	Ballast	28.0	5.00	2pcs x 14kg lead		
d	Ballast	75.0	3.30	5pcs x 15kg lead		
e	Ballast	60.0	3.30	4pcs x 15kg lead		
1	Battery	30.0	3.30	2 x 60Ah		
1	Misc	20.0	2.80	Toilet		



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.15	0.89	1.54	2.59	3.43	26.23					* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						4.69	0.00	149%	25.30		No					* Copied from
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	10.03	10.03	10.03	5.76	5.44	47.61					* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				