



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

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

Certificate
Number **00604**
Issued On **06/06/2020**
ORC Ref **03420000K2L**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	580kg
Maximum	500kg
Minimum*	375kg

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

Special Scoring

ToD	ToT
Non Spin GPH 669.8	0.8958
Non Spin OSN 647.8	0.9262

Sails Limitations

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

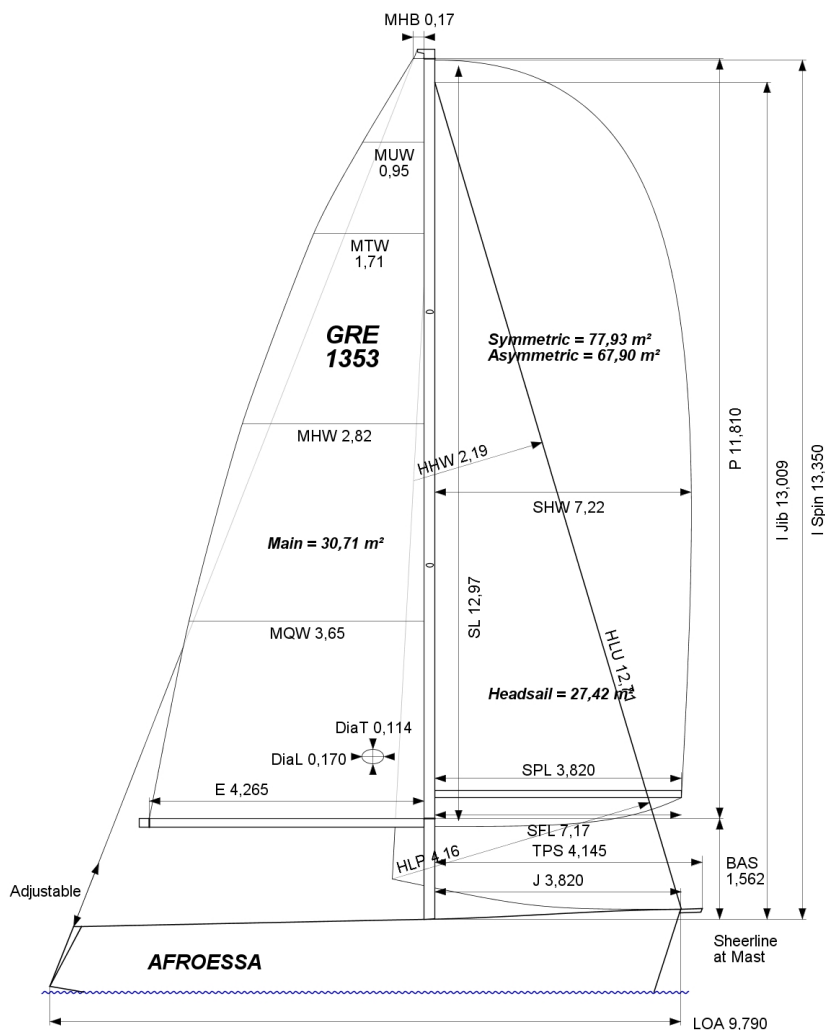
Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** **77.93**
Asymmetric: **Yes** **67.90**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 8.778

Stability (Measured)
Limit Positive Stab.: **122.9°**
Stability Index: **117.9**

Owner



BOAT Name AFROESSA Sail Nr GRE-1353		GPH 630.9	HULL Data File GR1353 LOA 9.790m Offset File I16320.OFF MB 3.434m Displacement 3,650kg Draft 1.932m			
CLASS Class SUN FAST 3200 Designer D. ANDRIEU Builder JEANNEAU Series 01/2007 Age Date 01/2008 Age Allowance 0.422%		IMS Division Cruiser/Racer Dynamic All. 0.182% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 9.187m VCGD -0.150m Sink 16.93kg/mm RL 8.385m VCGM -0.119m WS 21.07m² LSM0 8.865m Displacement/Length ratio 5.2391		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Strut PRD 0.385 Type Folding 2 blades PBW 0.099 PIPA 0.0031		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	612.1			686.4		
Time on Time	0.9803			0.9834		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	728.9	557.7	491.4	947.5	688.7	597.6
Time on Time	0.9261	1.2103	1.3737	0.7124	0.9801	1.1295

BOAT			
Name	AFROESSA	Sail Nr	GRE-1353
File	GR1353	Data in	meters/kilograms
RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners/Checkstays	0
Carbon Mast	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	11.810	E	4.265
IG	13.009	J	3.820
ISP	13.350	SFJ	-0.005
BAS	1.562	SPL	3.820
FSD	0.029	TPS	4.145
MDT1	0.114	MDL1	0.170
MDT2	0.114	MDL2	0.170
TL	0.000	MW	0.170
		GO	0.195
		BD	0.132
		MWT	
		MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		04/05/2010	SG 1.0280
FFM	1.276	FF	1.274
FAM	0.976	FA	0.981
SFFP	0.440	SAFP	9.300
W1	78.0	PD1	579.4
W2	78.0	PD2	578.4
W3	78.0	PD3	580.1
W4	78.0	PD4	579.3
WD	10.770	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		5.527 / 5.764	
Maximum beam station from stem		7.091	
RM Measured		114.2kg-m	
RM Default		96.1kg-m	
Limit of positive stability / Stab.Index		122.9° / 117.9	
Freeboard at mast at 0.000		1.134	



Offshore Racing Congress
World leader in rating technology

2020


Measurements Datasheet

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.385
Type	Folding 2 blades	PBW	0.099
Twin Screw	No	PIPA	0.0031
ST1	0.041	ST3	0.179
ST2	0.179	ST4	0.102
		ST5	0.231
		EDL	1.490

Certificate

Number **00604**
 ORC Ref **03420000K2L**
 Issued On **06/06/2020**
 VPP Ver. **2020 1.02**
 Valid until **28/02/2021**



COMMENTS			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.17	0.95	1.71	2.82	3.65	30.72		02/04/2019	QUANTUM	Carbon						
4	0.74	1.15	1.66	2.56	3.38	29.76		02/04/2019	KAKITSIS	Carbon	SQ					
HEADSAILS (8)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovr/tp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.60	1.14	2.19	3.22	4.16	12.71	109%	27.42		No		04/05/2010	KAKITSIS	Kevlar	No 1 old
8	0.08	0.65	1.23	2.25	3.21	4.07	12.32	107%	26.80	Y	No		02/04/2019	KAKITSIS	Carbon	No 1.5
1	0.11	0.62	1.17	2.17	3.11	4.09	12.56	107%	26.71	Y	No		02/04/2019	QUANTUM	Carbon	No 1 new
3	0.08	0.54	1.03	2.06	3.14	4.19	12.64	110%	26.42		No		02/04/2019	KAKITSIS	Unknow	No 1 Light
4	0.06	0.51	1.00	2.03	3.07	4.12	12.26	108%	25.09		No		04/05/2010	KAKITSIS	Dacron	No 1 Dacron
5	0.06	0.47	0.90	1.77	2.65	3.47	12.63	91%	22.32		No		04/05/2010	KAKITSIS	Kevlar	No 2
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	12.97	12.97	12.97	7.22	7.17	77.93		14/03/2018	KAKITSIS	Nylon	S5					
4	13.00	13.00	13.00	7.11	7.17	77.16		18/06/2014	KAKITSIS	Nylon	0.9					
3	12.72	12.72	12.72	6.72	6.54	70.86		04/05/2010	NORTH	Nylon	1.5					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	13.47	11.71	12.59	6.28	7.24	67.91	asym		11/09/2013	KAKITSIS	Nylon					
2	13.42	11.00	12.21	5.85	7.42	62.72	asy79		04/05/2010	KAKITSIS	Nylon					

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 04/05/2010				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	7.0	4.40	
2	Anchor	10.5	8.90	Delta
4	Chain	7.5	8.90	Chain & rope
4	Tools	10.0	6.40	
Id	Item	Maker	Model	
1	Engine	YANMAR	YM15 (15HP)	
Id	Item	Weight	Description	
4	Deck Gear	5.0		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn Description
1	Tank	WATER	Soft PVC bag	80.0	4.20		0-0
2	Tank	FUEL	PVC hard	90.0	7.20		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	20.0	4.00	50 Ah			
2	Battery	20.0	3.70	50 Ah			
3	Battery	20.0	5.70	50 Ah			

2020

ORC Club Certificate Appendix

BOAT	
Name	AFROESSA
Sail Nr	GRE-1353
Certificate Number	00604
Issued On	06/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1094.7	897.2	785.1	729.2	712.6	707.0	700.9
52°	710.4	595.9	536.3	511.7	502.9	499.3	495.6
60°	668.6	567.7	521.1	499.0	487.5	482.7	479.7
75°	637.8	542.6	504.6	487.0	468.0	454.2	445.3
90°	612.4	524.7	489.7	464.9	449.0	437.9	411.2
110°	630.6	532.4	492.4	460.9	431.8	405.0	369.3
120°	663.5	546.6	498.2	465.7	433.3	403.3	354.6
135°	734.4	592.9	521.2	486.7	455.8	425.7	363.4
150°	869.9	687.1	579.9	519.1	487.9	459.4	403.6
Run VMG	1004.5	793.4	669.0	589.8	536.1	500.2	446.7
Selected Courses							
Windward / Leeward	1049.6	845.3	727.0	659.5	624.3	603.6	573.8
Circular Random	874.0	703.7	611.9	558.1	524.4	501.4	470.0
Coastal / Long Distance	1045.0	792.5	655.4	576.3	535.6	503.2	445.9
Non Spinnaker	943.2	752.6	648.5	587.1	548.9	523.7	491.3

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°	41.6°	40.9°	39.0°	39.0°	39.0°	39.2°
Beat VMG	3.29	4.01	4.59	4.94	5.05	5.09	5.14
52°	5.07	6.04	6.71	7.04	7.16	7.21	7.26
60°	5.38	6.34	6.91	7.21	7.38	7.46	7.51
75°	5.64	6.63	7.13	7.39	7.69	7.93	8.08
90°	5.88	6.86	7.35	7.74	8.02	8.22	8.76
110°	5.71	6.76	7.31	7.81	8.34	8.89	9.75
120°	5.43	6.59	7.23	7.73	8.31	8.93	10.15
135°	4.90	6.07	6.91	7.40	7.90	8.46	9.91
150°	4.14	5.24	6.21	6.93	7.38	7.84	8.92
Run VMG	3.58	4.54	5.38	6.10	6.72	7.20	8.06
Gybe Angles	145.0°	149.0°	151.0°	157.5°	175.0°	180.0°	180.0°