BOAT

Name **AEOLUS II**
Sail Nr **GRE-1007**

GPH

624.2

GENERAL

Class	**FIRST 36.7**
Designer	**BRUCE FARR**
Builder	**BENETEAU**
Series	**10/2001**
Age	**08/2002**
Age Allow ance	**0.487%**
Offset File	**F196.OFF - 20/11/2001 14:27:28**
Measurement by	**- 06/09/2005**

HULL

Length Overall	**10.640m**
Maximum Beam	**3.458m**
Displacement	**5,463kg**
Draft	**2.216m**
Plan Review	
IMS Reg. Division	**Cruiser/Racer**
Dynamic Allow ance	**0.010%**
Hull Construction	**Solid**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**9.536m**	VCGD	**0.106m**	Sink	**19.05kg/mm**
RL	**8.695m**	VCGM	**0.103m**	WS	**24.91m²**
LSM0	**9.486m**	Displacement/Length ratio			**6.4000**

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SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**607.3**			**676.3**		
Time on Time	**0.9879**			**0.9981**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**709.6**	**554.1**	**499.4**	**913.8**	**678.3**	**595.3**
Time on Time	**0.9512**	**1.2181**	**1.3515**	**0.7387**	**0.9951**	**1.1338**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1018.1**	**849.0**	**753.2**	**716.1**	**703.5**	**699.2**	**696.3**
52°	**672.2**	**570.0**	**522.4**	**505.4**	**499.9**	**497.4**	**495.3**
60°	**638.1**	**547.8**	**509.9**	**493.8**	**487.3**	**484.1**	**482.7**
75°	**612.4**	**533.1**	**501.2**	**483.1**	**470.4**	**463.4**	**457.9**
90°	**617.9**	**533.4**	**497.7**	**480.0**	**463.2**	**448.2**	**430.1**
110°	**639.2**	**532.9**	**491.7**	**467.0**	**445.6**	**432.5**	**413.7**
120°	**659.0**	**544.9**	**497.5**	**471.3**	**447.1**	**424.6**	**395.8**
135°	**729.0**	**594.4**	**521.4**	**488.8**	**464.8**	**440.8**	**396.6**
150°	**862.1**	**686.2**	**581.7**	**519.7**	**489.5**	**467.0**	**423.3**
Run VMG	**995.5**	**792.4**	**670.8**	**590.8**	**534.9**	**499.2**	**454.8**
Selected Courses							
Windward / Leeward	**1006.8**	**820.7**	**712.0**	**653.5**	**619.2**	**599.2**	**575.6**
Circular Random	**853.4**	**691.6**	**605.8**	**556.7**	**527.2**	**508.2**	**484.6**
Coastal / Long Distance	**1005.7**	**772.2**	**644.3**	**574.2**	**537.6**	**508.8**	**463.1**
Non Spinnaker	**901.4**	**725.4**	**630.7**	**576.0**	**542.7**	**521.2**	**494.3**

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	**42.0°**	**40.9°**	**40.1°**	**38.6°**	**38.3°**	**38.6°**	**39.0°**
Beat VMG	**3.54**	**4.24**	**4.78**	**5.03**	**5.12**	**5.15**	**5.17**
52°	**5.36**	**6.32**	**6.89**	**7.12**	**7.20**	**7.24**	**7.27**
60°	**5.64**	**6.57**	**7.06**	**7.29**	**7.39**	**7.44**	**7.46**	
75°	**5.88**	**6.75**	**7.18**	**7.45**	**7.65**	**7.77**	**7.86**
90°	**5.83**	**6.75**	**7.23**	**7.50**	**7.77**	**8.03**	**8.37**
110°	**5.63**	**6.76**	**7.32**	**7.71**	**8.08**	**8.32**	**8.70**
120°	**5.46**	**6.61**	**7.24**	**7.64**	**8.05**	**8.48**	**9.10**
135°	**4.94**	**6.06**	**6.90**	**7.37**	**7.74**	**8.17**	**9.08**
150°	**4.18**	**5.25**	**6.19**	**6.93**	**7.35**	**7.71**	**8.50**
Run VMG	**3.62**	**4.54**	**5.37**	**6.09**	**6.73**	**7.21**	**7.92**
Gybe Angles	**145.0°**	**150.0°**	**151.5°**	**158.0°**	**178.0°**	**180.0°**	**180.0°**

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας

Certificate

Number **00321P**
ORC Ref **03420000KJT**
Issued On **12/06/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	638kg
Maximum	**600kg**
Minimum*	**450kg**

**when applied by the NoR and SI*

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	**650.7**	**0.9221**
Non Spin OSN	**632.3**	**0.9489**

Sails Limitations

Headsails	Spinnakers
5	**4**

Class Division Length

CDL = **9.110**

Storm Sails Areas

Heavy Weather Jib	**27.49**
Storm Jib (JL=9.28)	**10.18**
Storm Trysail	**11.33**

Owner

BOAT

Name	**AEOLUS II**	Sail Nr	**GRE-1007**
File	**GR1007**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**3**
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	**13.770**	E	**4.700**	MDT1	**0.104**	MW	**0.187**
IG	**14.196**	J	**3.970**	MDL1	**0.187**	GO	**0.207**
ISP	**14.216**	SFJ	**0.000**	MDT2	**0.104**	BD	**0.160**
BAS	**1.566**	SPL	**3.969**	MDL2	**0.150**	MWT	**150.50**
FSD	**0.033**	TPS		TL	**1.300**	MCG	**5.925**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **04/04/2017** SG **1.0285**

FFM	**1.348**	FF	**1.344**	SFFP	**0.367**
FAM	**1.068**	FA	**1.072**	SAFP	**10.162**

W1	**86.6**	PD1	**549.1**	WD	**10.590**
W2	**86.6**	PD2	**550.4**	GSA	**1.0**
W3	**86.6**	PD3	**549.9**	RSA	**1.0**
W4	**86.6**	PD4	**551.0**	PLM	**9000.0**

LCF from stem on CL / on sheer	**5.859 / 6.074**
Maximum beam station from stem	**6.980**
RM Measured	**131.3kg·m**
RM Default	**137.2kg·m**
Limit of positive stability / Stab.Index	**115.0° / 116.5**
Freeboard at mast at 3.970	**1.201**

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MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation	**Strut**			PRD	**0.406**
Type	**Folding 2 blades**			PBW	**0.111**
Twin Screw	**No**			PIPA	**0.0033**

ST1	**0.041**	ST3	**0.180**	ST5	**0.275**
ST2	**0.180**	ST4	**0.110**	EDL	**2.480**

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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**
	0.17	0.98	1.78	3.05	3.99	38.75	39.52	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	14.07	14.07	14.07	7.37	7.16	85.92		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
0.08	0.66	1.29	2.61	3.99	5.46	14.10	37.63		No	28/04/2017	Carbon	
0.11	0.71	1.34	2.63	4.00	5.37	13.80	36.94		No	19/03/2010	Polyest	

MEASUREMENT INVENTORY

Measurer **GRE-21**
Date **04/04/2017**
Comment **Without the removable cockpit lockers**
Internal Ballast total = 0.0

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

Id	*Item*	*Maker*	*Model*
1	Engine	YANMAR	27 HP

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
1	Tank	FUEL	PVC	70.0	8.70		~~25.0~~	
2	Tank	WATER	PVC	140.0	5.00		~~0.0~~	
3	Tank	WATER	PVC	140.0	5.00		~~0.0~~	

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1	Battery	44.0	6.90		2 x 70 Ah
2	Battery		6.40		1 x 74 Ah
1	Misc	20.0	8.00		Boiler

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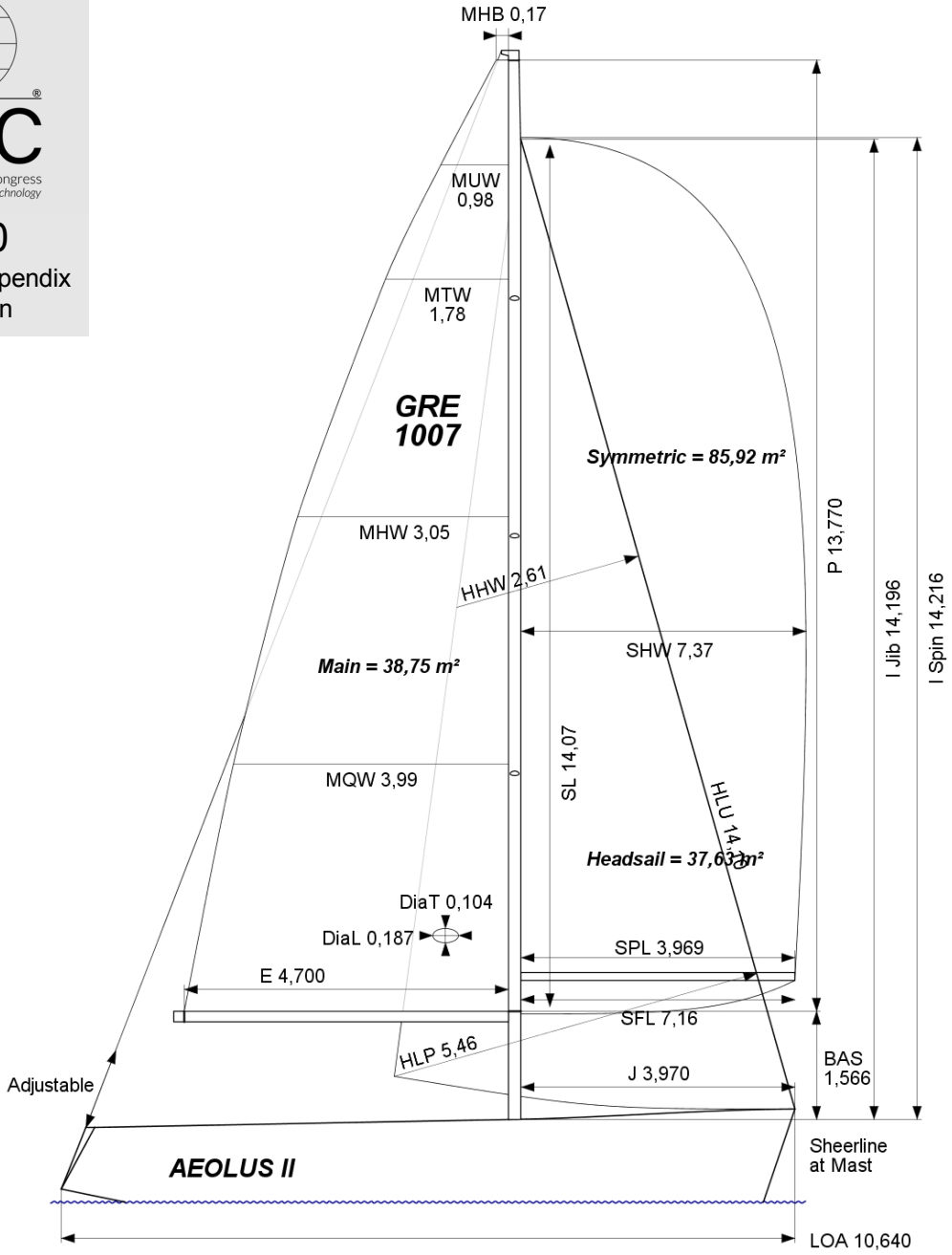
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.17	0.98	1.78	3.05	3.99	38.76		25/05/2016	QUANTUM	Carbon	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.08	0.66	1.29	2.61	3.99	5.46	14.10	138%	37.63		No		28/04/2017	QUANTUM	Carbon	
2	0.11	0.71	1.34	2.63	4.00	5.37	13.80	135%	36.94		No		19/03/2010	KAKITSIS	Polyest	

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	14.07	14.07	14.07	7.37	7.16	85.93		25/05/2016	QUANTUM	Nylon	
1	13.94	13.94	13.94	7.25	7.00	83.64		14/03/2013	KAKITSIS	Polyester	
2	13.99	13.99	13.99	7.18	6.88	83.01		19/03/2010	NORTH	Unknown	0.6
3	13.82	13.82	13.82	7.17	6.97	82.12		19/03/2010	KAKITSIS	Unknown	0.5

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment