BOAT

Name **KYMATOLIGI**
Sail Nr **GRE-301**

GPH

603.6

GENERAL

Class	**MOUNT GAY 30**
Designer	**S. ROGERS**
Builder	**YACHT SERVICES**
Series	**12/1993**
Age	**03/1997**
Age Allow ance	**0.487%**
Offset File	**K17001.OFF - 18/03/1997 07:21:00**
Measurement by	**- 10/04/2000**

HULL

Length Overall	**9.529m**
Maximum Beam	**3.288m**
Displacement	**2,688kg**
Draft	**1.966m**
Plan Review	
IMS Reg. Division	**Performance**
Dynamic Allow ance	**0.000%**
Hull Construction	**Cored**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**8.545m**	VCGD	**-0.213m**	Sink	**14.55kg/mm**
RL	**8.725m**	VCGM	**-0.042m**	WS	**18.36m²**
LSM0	**8.324m**	Displacement/Length ratio			**4.6605**

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SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**588.3**			**659.1**		
Time on Time	**1.0199**			**1.0241**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**680.0**	**540.0**	**477.0**	**873.2**	**660.8**	**581.7**
Time on Time	**0.9926**	**1.2501**	**1.4152**	**0.7730**	**1.0215**	**1.1603**

Rating Office

Hellenic Sailing Federation Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης Ελληνικής Ιστιοπλοϊκής Ομοσπονδίας

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1014.1**	**837.1**	**744.6**	**714.9**	**703.6**	**695.2**	**690.8**
52°	**665.9**	**567.4**	**527.9**	**513.7**	**507.4**	**504.1**	**494.2**
60°	**630.2**	**549.0**	**516.0**	**498.1**	**489.4**	**484.4**	**471.7**
75°	**605.7**	**536.7**	**506.1**	**479.2**	**460.3**	**450.9**	**442.0**
90°	**589.6**	**519.8**	**489.8**	**467.7**	**448.4**	**425.6**	**404.0**
110°	**582.6**	**512.1**	**471.9**	**444.1**	**419.5**	**395.8**	**364.7**
120°	**597.4**	**519.0**	**476.6**	**436.7**	**405.5**	**384.9**	**336.8**
135°	**663.0**	**549.2**	**502.5**	**462.8**	**424.1**	**384.1**	**307.4**
150°	**785.0**	**636.6**	**548.0**	**502.5**	**466.1**	**430.7**	**360.5**
Run VMG	**906.4**	**735.1**	**629.6**	**565.4**	**519.2**	**485.1**	**416.3**
Selected Courses							
Windward / Leeward	**960.3**	**786.1**	**687.1**	**640.1**	**611.4**	**590.2**	**553.5**
Circular Random	**819.5**	**667.7**	**587.0**	**539.5**	**508.7**	**486.4**	**453.2**
Coastal / Long Distance	**954.9**	**740.1**	**624.6**	**561.6**	**523.4**	**489.9**	**429.7**
Non Spinnaker	**896.1**	**720.7**	**626.1**	**570.5**	**535.4**	**511.2**	**476.7**

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	**42.0°**	**40.9°**	**38.6°**	**37.5°**	**37.1°**	**36.8°**	**37.1°**
Beat VMG	**3.55**	**4.30**	**4.83**	**5.04**	**5.12**	**5.18**	**5.21**
52°	**5.41**	**6.34**	**6.82**	**7.01**	**7.09**	**7.14**	**7.28**
60°	**5.71**	**6.56**	**6.98**	**7.23**	**7.36**	**7.43**	**7.63**
75°	**5.94**	**6.71**	**7.11**	**7.51**	**7.82**	**7.98**	**8.14**
90°	**6.11**	**6.93**	**7.35**	**7.70**	**8.03**	**8.46**	**8.91**
110°	**6.18**	**7.03**	**7.63**	**8.11**	**8.58**	**9.10**	**9.87**
120°	**6.03**	**6.94**	**7.55**	**8.24**	**8.88**	**9.35**	**10.69**
135°	**5.43**	**6.56**	**7.16**	**7.78**	**8.49**	**9.37**	**11.71**
150°	**4.59**	**5.66**	**6.57**	**7.16**	**7.72**	**8.36**	**9.98**
Run VMG	**3.97**	**4.90**	**5.72**	**6.37**	**6.93**	**7.42**	**8.65**
Gybe Angles	**142.4°**	**148.0°**	**153.0°**	**162.0°**	**180.0°**	**180.0°**	**149.0°**

Certificate

Number	**00112**
ORC Ref	**03420000M8I**
Issued On	**08/07/2020**
VPP Ver.	**2020 1.02**
Valid until	**28/02/2021**

Crew Weight

Default	530kg
Maximum	**600kg**
Minimum*	**450kg**

**when applied by the NoR and SI*

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	**645.6**	**0.9294**
Non Spin OSN	**627.6**	**0.9560**

Sails Limitations

Headsails	Spinnakers
5	**4**

Class Division Length

CDL = **8.627**

Storm Sails Areas

Heavy Weather Jib	**16.75**
Storm Jib (JL=7.24)	**6.21**
Storm Trysail	**10.20**

Owner

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BOAT

Name	**KYMATOLIGI**	Sail Nr	**GRE-301**
File	**GR301**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**3**
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	**12.660**	E	**4.600**	MDT1	**0.088**	MW	**0.154**
IG	**11.106**	J	**3.480**	MDL1	**0.154**	GO	**0.164**
ISP	**13.890**	SFJ	**0.335**	MDT2	**0.088**	BD	**0.154**
BAS	**1.360**	SPL	**3.965**	MDL2	**0.154**	MWT	
FSD	**0.026**	TPS	**4.405**	TL	**0.000**	MCG	

INCLINING TEST AND FREEBOARDS

Inclining Test	**Boom Inclining**			LCFD	**6.020**
Flotation date	**07/07/2020**			SG	**1.0270**
FFM	**1.090**	FF	**1.087**	SFFP	**0.484**
FAM	**0.832**	FA	**0.835**	SAFP	**8.765**
W1	**71.9**	PD1	**298.0**	WD	**4.110**
W2	**71.9**	PD2	**299.6**	GSA	**1.0**
W3	**71.9**	PD3	**299.6**	RSA	**1.0**
W4	**71.9**	PD4	**300.1**	PLM	**9000.0**

LCF from stem on CL / on sheer	**5.360 / 5.599**
Maximum beam station from stem	**6.887**
RM Measured	**77.7kg·m**
RM Default	**73.3kg·m**
Limit of positive stability / Stab.Index	**113.3° / 107.3**
Freeboard at mast at 3.815	**0.917**

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MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation	**Strut**			PRD	**0.356**
Type	**Folding 2 blades**			PBW	**0.117**
Twin Screw	**No**			PIPA	**0.0032**
ST1	**0.040**	ST3	**0.180**	ST5	**0.275**
ST2	**0.180**	ST4	**0.110**	EDL	**1.535**

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Issued On	**08/07/2020**
VPP Ver.	**2020 1.02**
Valid until	**28/02/2021**

COMMENTS

VALID ONLY WITHOUT WATER BALLAST. ex "HEAVY WEIGHTS"

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

SAILS (Maximum Areas)

Mainsail	**MHB**	**MUW**	**MTW**	**MHW**	**MQW**	**Area**	**Area (r)**	**Formula**
	0.17	1.35	2.28	3.43	4.21	39.14	40.71	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	13.90	13.90	13.90	8.02	7.90	92.62		SL · (SFL + 4·SHW) / 6
Asymmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	15.17	13.65	14.41	7.86	7.90	94.48		AS · (SFL + 4·SHW) / 6

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	0.45	0.85	1.66	2.42	3.13	11.33	18.42		No	14/07/2011	Carbon	No 3 Light
0.08	0.44	0.82	1.59	2.37	3.12	11.29	17.96		No	20/08/2012	Carbon	No 3 Heavy
					3.05	9.12	14.16		No	06/08/2011	Dacron	No 4 & HW

MEASUREMENT INVENTORY

Measurer	**GRE-21**
Date	**07/07/2020**
Comment	

Internal Ballast total = 0.0

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

Id	*Item*	*Maker*	*Model*
1	Engine	YANMAR	8 HP

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
1	Tank	FUEL	Hard plastic	25.0	7.80		~~15.0~~	(C)
1	Tank	WATER	Soft PVC	70.0	4.00		~~0.0~~	(P)

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1	Battery	37.0	5.85		2 x 65 Ah (P & S)

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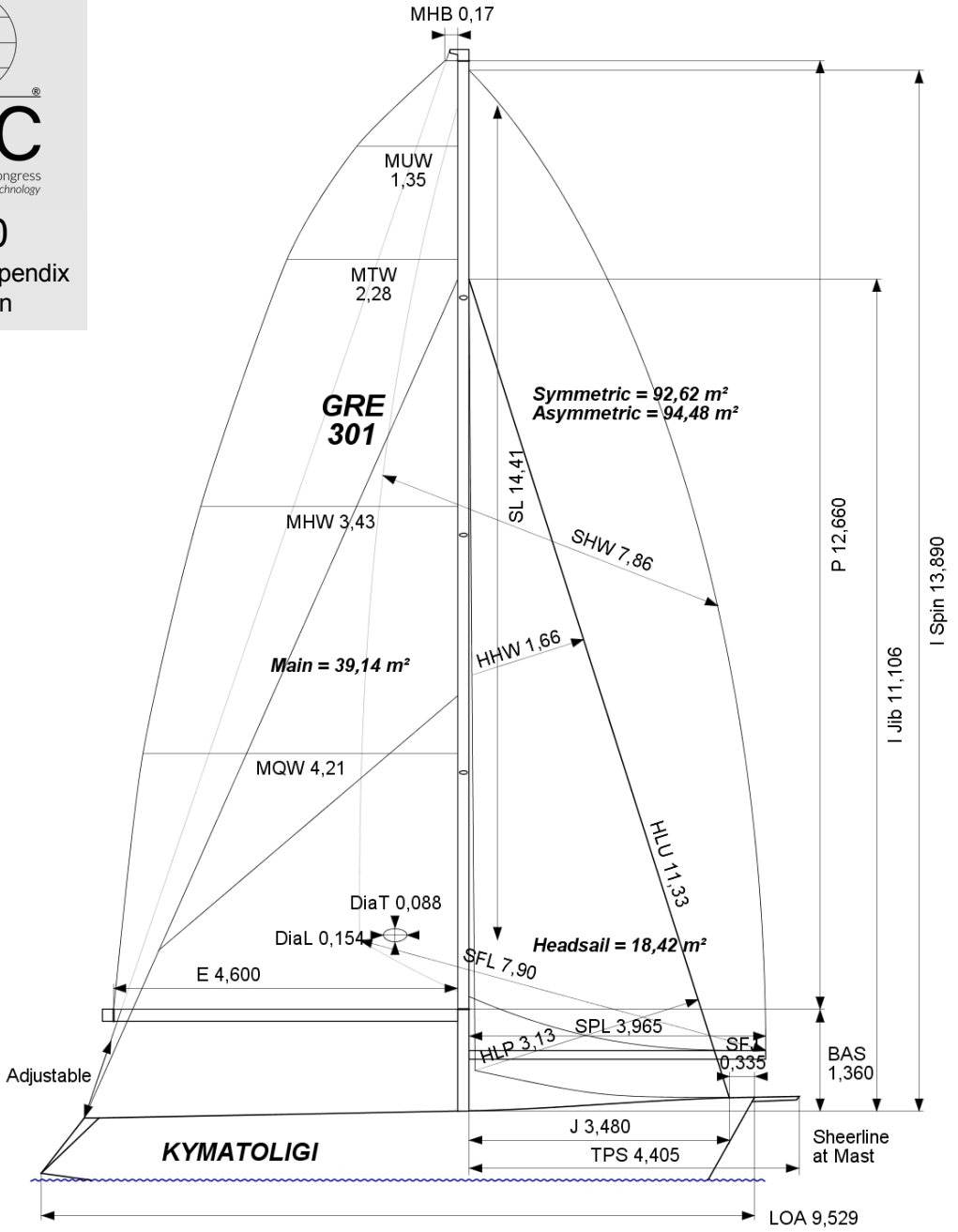
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.17	1.35	2.28	3.43	4.21	39.15		14/07/2011	KAKITSIS	Kevlar	POWER HEAD

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.08	0.45	0.85	1.66	2.42	3.13	11.33	90%	18.42		No		14/07/2011	KAKITSIS	Carbon	No 3 Light
3	0.08	0.44	0.82	1.59	2.37	3.12	11.29	90%	17.96		No		20/08/2012	KAKITSIS	Carbon	No 3 Heavy
4						3.05	9.12	88%	14.16		No		06/08/2011	DOYLE	Dacron	No 4 & HW

SYMMETRIC SPINNAKERS (6)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	13.90	13.90	13.90	8.02	7.90	92.63		01/01/1996		Nylon	0.5 MASTHEAD
2	14.00	14.00	14.00	7.22	0.00	84.04					0.5 MASTHEAD RUNNER
3	14.00	14.00	14.00	7.20	7.04	83.63		27/04/1999	NORTH	Unknown	0.75 MASTHEAD
4	11.29	11.29	11.29	7.11	6.89	66.48		27/04/1999	NORTH	Unknown	0.5 FRACTIONAL RUNNER
5	11.51	11.51	11.51	6.30		62.04		14/12/1988		Nylon	S4 Heavy

ASYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	15.17	13.65	14.41	7.86	7.90	94.49	asym		14/07/2011	QUANTUM	Nylon	A1.5
3	13.63	12.21	12.92	5.19	6.15	57.95	asy85		24/09/2013	KAKITSIS	Polyester	C0 MASTHEAD
2	12.17	9.98	11.08	6.19	6.12	57.00	asym		24/09/2013	KAKITSIS	Nylon	A5
4	11.83	9.95	10.89	5.05	6.15	47.83	asy83		02/05/2006	KAKITSIS	Polyester	C0 FRACTIONAL

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