

BOAT Name ERYTOS II Sail Nr GRE-1050	GPH 533.6	HULL Length Overall 13.305m Maximum Beam 3.978m Displacement 6,858kg Draft 2.969m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Light Carbon Rudder Yes Crew Arm Extension
GENERAL Class JV 44 Designer JUDEL/VROELIJK Builder PRO-YACHTING Series 11/1998 Age 11/1998 Age Allowance 0.487% Offset File PROYA.OFF - 31/07/1998 15:19:00 Measurement by - 27/07/2018		IMSL 11.750m VCGD -0.574m Sink 23.77kg/mm RL 11.619m VCGM -0.284m WS 32.01m² LSM0 11.380m Displacement/Length ratio 4.6534



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	519.8			580.8		
Time on Time	1.1543			1.1621		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	601.8	476.2	424.2	774.8	584.4	511.1
Time on Time	1.1216	1.4176	1.5914	0.8712	1.1550	1.3207

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	860.6	710.4	643.4	619.5	607.7	594.9	585.8
52°	569.9	481.6	453.3	443.9	438.8	435.3	426.4
60°	540.5	466.0	442.2	431.7	425.6	421.9	410.7
75°	517.8	456.0	431.8	415.1	404.2	397.6	390.3
90°	523.7	457.8	431.5	410.4	391.9	378.0	363.7
110°	540.9	455.7	423.2	397.6	382.4	368.8	346.8
120°	557.4	462.4	426.5	397.5	373.2	353.9	327.9
135°	618.5	499.0	445.8	416.4	387.3	359.5	305.5
150°	735.1	588.5	498.2	448.8	420.9	393.7	341.7
Run VMG	848.8	679.6	575.3	511.8	471.0	438.2	387.7

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Number **00120P**
ORC Ref **GRE01015173**
Issued On **16/03/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight

Default **828kg**
Maximum **815kg**
Minimum* **611kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	565.3	1.0614
Non Spin OSN	551.6	1.0877

Selected Courses							
Windward / Leeward	854.7	695.0	609.3	565.7	539.3	516.6	486.8
Circular Random	726.9	590.5	518.4	476.8	450.5	432.0	405.8
Coastal / Long Distance	854.1	654.7	552.4	495.4	462.7	433.7	388.9
Non Spinnaker	783.2	630.6	548.3	499.9	469.2	448.2	419.8

Sails Limitations

Headsails	Spinnakers
7	5

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	41.8°	40.3°	38.3°	37.6°	36.9°	36.2°	36.2°
Beat VMG	4.18	5.07	5.59	5.81	5.92	6.05	6.15
52°	6.32	7.48	7.94	8.11	8.21	8.27	8.44
60°	6.66	7.73	8.14	8.34	8.46	8.53	8.77
75°	6.95	7.89	8.34	8.67	8.91	9.06	9.22
90°	6.87	7.86	8.34	8.77	9.19	9.52	9.90
110°	6.66	7.90	8.51	9.05	9.41	9.76	10.38
120°	6.46	7.79	8.44	9.06	9.65	10.17	10.98
135°	5.82	7.21	8.07	8.65	9.29	10.01	11.78
150°	4.90	6.12	7.23	8.02	8.55	9.14	10.54
Run VMG	4.24	5.30	6.26	7.03	7.64	8.21	9.29
Gybe Angles	142.7°	142.8°	148.9°	155.6°	167.4°	180.0°	180.0°

Class Division Length

CDL = **11.686**

Storm Sails Areas

Heavy Weather Jib **38.53**
Storm Jib (JL=10.99) **14.27**
Storm Trysail **20.19**

Owner

BOAT	
Name ERYTOS II	Sail Nr GRE-1050
File GR1050	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 27/07/2018	SG 1.0245	
FFM 1.388	FF 1.387	SFFP 0.210
FAM 1.126	FA 1.131	SAFP 11.884
W1 102.8	PD1 454.0	WD 12.380
W2 102.8	PD2 450.6	GSA 1.0
W3 102.8	PD3 450.7	RSA 1.0
W4 102.8	PD4 448.0	PLM 9000.0
LCF from stem on CL / on sheer		7.154 / 7.411
Maximum beam station from stem		7.745
RM Measured		222.3kg-m
RM Default		210.3kg-m
Limit of positive stability / Stab.Index		128.8° / 128.9
Freeboard at mast at 4.910		1.199



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RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay None Fitted	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 17.710	E 6.513 MDT1 0.134 MW 0.243
IG 16.859	J 4.910 MDL1 0.244 GO 0.253
ISP 18.331	SFJ 0.000 MDT2 0.109 BD 0.297
BAS 1.931	SPL 5.270 MDL2 0.161 MWT 231.00
FSP 0.082	TPS TL 2.222 MCG 5.460

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.410	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0.0037	
ST1 0.042	ST3 0.292	
ST2 0.112	ST4 0.112 EDL 0.990	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.36	2.41	4.17	5.45	68.27	69.75	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	18.15	18.15	18.15	9.99	9.50	149.62	SL · (SFL + 4·SHW) / 6		
Asymmetric	SLU	SLE	SL	SHW	SFL				
	16.99	15.99	16.49	8.64	8.70	118.89	AS · (SFL + 4·SHW) / 6		

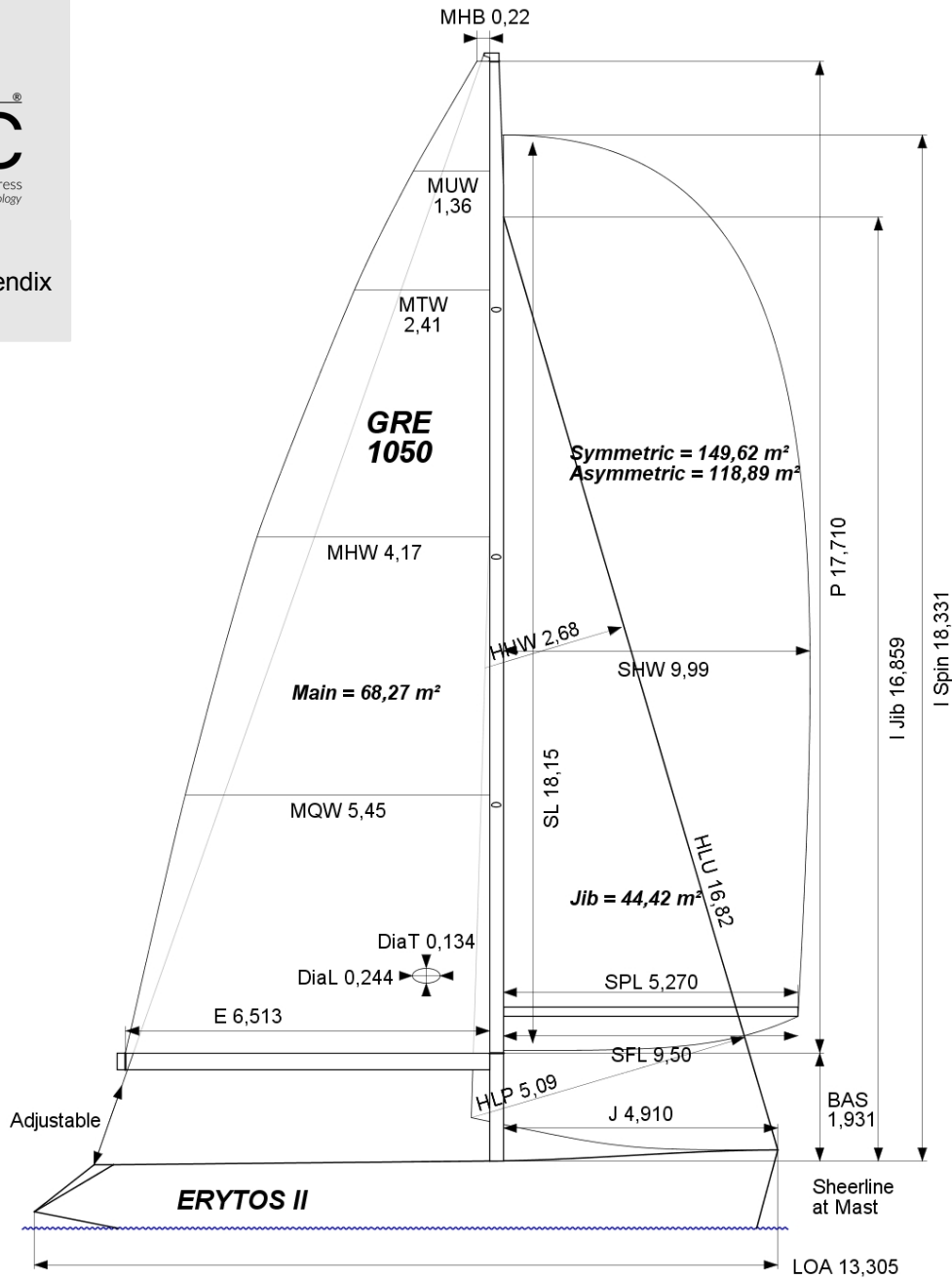
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.12	0.77	1.45	2.68	3.88	5.09	16.82	44.43	Y		19/08/2017	Dyneem	Medium 3DI
0.11	0.69	1.36	2.56	3.68	4.99	16.73	42.30	Y		25/08/2009	Unknow	MEDIUM
0.11	0.71	1.37	2.54	3.69	4.99	16.70	42.25	Y		25/08/2009	Unknow	JIB TOP
0.11	0.80	1.42	2.55	3.74	4.98	16.49	42.22	Y		04/09/2009	Unknow	LIGHT
0.09	0.69	1.36	2.56	3.68	4.99	16.69	42.18	Y		17/03/2016	Carbon	
0.06	0.66	1.28	2.49	3.76	5.08	16.60	41.93	Y		19/08/2007	Unknow	HEAVY
0.07	0.63	1.21	2.41	3.73	4.99	16.70	41.28	Y		18/06/2008	Unknow	No 3

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 27/07/2018				
Comment NO MATTRESSES ON BOARD DURING				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
5	Engine	YANMAR	3JH3E	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
6a	Tank	FUEL	ST STEEL	117.0	8.90		50-0
6b	Tank	WATER	BLADDER	150.0	9.00		0-0
6c	Tank	WATER	BLADDER	150.0	9.00		0-0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>		
1a	Ballast	613.0	7.10		2*(9x25 + 11,5) + 140		
1b	Ballast	400.0	7.60		16 x 25		
1c	Ballast	285.0	8.10		6x40 +3 x 15		
3a	Battery	88.0	7.70		4x65 Ah		



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Sail Plan



SAILS INVENTORY

MAINSAIL (3)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.22	1.36	2.41	4.17	5.45	68.27		17/03/2016	NORTH	Carbon	
2	0.23	1.34	2.37	4.13	5.38	67.62		17/03/2016	NORTH	Kevlar	3DL

HEADSAILS (7)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btm	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
7	0.12	0.77	1.45	2.68	3.88	5.09	16.82	104%	44.43	Y			19/08/2017	North	Dyneem	Medium 3DI
3	0.11	0.69	1.36	2.56	3.68	4.99	16.73	102%	42.30	Y			25/08/2009	NORTH	Unknow	MEDIUM
5	0.11	0.71	1.37	2.54	3.69	4.99	16.70	102%	42.25	Y			25/08/2009	NORTH	Unknow	JIB TOP
2	0.11	0.80	1.42	2.55	3.74	4.98	16.49	101%	42.22	Y			04/09/2009	UK	Unknow	LIGHT
6	0.09	0.69	1.36	2.56	3.68	4.99	16.69	102%	42.18	Y			17/03/2016	NORTH	Carbon	
1	0.06	0.66	1.28	2.49	3.76	5.08	16.60	103%	41.93	Y			19/08/2007	UK	Unknow	HEAVY
4	0.07	0.63	1.21	2.41	3.73	4.99	16.70	102%	41.28	Y			18/06/2008	NORTH	Unknow	No 3

SYMMETRIC SPINNAKERS (7)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
6	18.15	18.15	18.15	9.99	9.50	149.62		11/05/2018	NORTH	Nylon	0.6
7	18.12	18.12	18.12	9.68	9.46	145.51		27/07/2018	NORTH	Nylon	0.5
1	16.75	16.75	16.75	9.15	8.69	126.44		04/09/2009		Nylon	0.75
2	16.65	16.65	16.65	9.19	8.68	126.10		04/09/2009		Nylon	0.60
5	16.57	16.57	16.57	9.11	8.53	124.20		17/03/2016		Nylon	0.90

ASYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2	16.99	15.99	16.49	8.64	8.70	118.90	asym		04/09/2009		Nylon	0.50
1	17.17	15.72	16.45	7.60	8.76	107.34	asym		04/09/2009		Nylon	0.90