

BOAT Name Simina 2 Sail Nr ROU 411	GPH 651.3	HULL Length Overall 9.983m Maximum Beam 3.466m Displacement 5,187kg Draft 2.057m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.251% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class Elan 340 Designer Humphreys Builder Elan Series 01/2006 Age 01/2006 Age Allowance 0.357% Offset File ELAN340.OFF - 16/02/2007 11:43:12 Measurement by Adrian Panait - 10/05/2016		IMSL 9.553m VCGD 0.190m Sink 17.79kg/mm RL 7.844m VCGM 0.130m WS 23.43m² LSMO 9.572m Displacement/Length ratio 5.9144



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	631.7			703.2		
Time On Time	0.9498			0.9599		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	750.2	575.8	511.4	968.3	709.3	608.4
Time on Time	0.8998	1.1722	1.3200	0.6971	0.9516	1.1095

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1116.9	926.5	821.4	753.9	727.0	714.8	702.8
52°	731.5	616.1	551.3	523.3	512.0	507.1	503.3
60°	690.5	583.2	532.1	509.8	498.0	492.5	488.7
75°	657.6	558.9	518.6	498.5	483.4	471.6	460.9
90°	660.2	552.5	508.0	493.8	480.2	464.3	437.6
110°	660.8	547.7	504.3	479.7	458.9	447.2	428.3
120°	681.0	561.6	510.7	485.2	461.6	437.9	411.7
135°	750.8	613.5	535.5	501.8	479.1	456.2	410.9
150°	883.0	701.5	596.6	532.0	501.6	480.3	437.2
Run VMG	1019.6	810.0	687.3	604.6	546.1	510.3	468.0

Certificate

Number **003/17**
ORC Ref **ROU00075973**
Issued On **14/05/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **590kg**
Default* **647kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	685.5	0.8753
Non Spin OSN	662.9	0.9051

Selected Courses							
	1068.3	868.3	754.3	679.3	636.6	612.6	585.4
Windward / Leeward	1068.3	868.3	754.3	679.3	636.6	612.6	585.4
Circular Random	900.0	725.5	631.7	577.0	543.4	521.6	494.0
Ocean for PCS	1099.6	849.5	708.2	621.7	565.8	527.1	474.1
Non Spinnaker	962.0	769.3	664.0	601.8	563.3	538.4	508.2

Sails Limitations

Headsails	Spinnakers
5	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	42.8°	41.1°	41.2°	40.3°	39.0°	38.4°	38.1°
Beat VMG	3.22	3.89	4.38	4.77	4.95	5.04	5.12
52°	4.92	5.84	6.53	6.88	7.03	7.10	7.15
60°	5.21	6.17	6.77	7.06	7.23	7.31	7.37
75°	5.47	6.44	6.94	7.22	7.45	7.63	7.81
90°	5.45	6.52	7.09	7.29	7.50	7.75	8.23
110°	5.45	6.57	7.14	7.51	7.85	8.05	8.41
120°	5.29	6.41	7.05	7.42	7.80	8.22	8.74
135°	4.79	5.87	6.72	7.17	7.51	7.89	8.76
150°	4.08	5.13	6.03	6.77	7.18	7.50	8.23
Run VMG	3.53	4.44	5.24	5.95	6.59	7.05	7.69
Gybe Angles	145.9°	150.6°	152.4°	157.9°	180.0°	180.0°	180.0°

Class Division Length

CDL = **8.699**

Storm Sails Areas

Heavy Weather Jib **24.36**
Storm Jib (JL=8.73) **9.02**
Storm Trysail **10.08**

Owner

BOAT	
Name Simina 2	Sail Nr ROU 411
File ROU411	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 23/04/2016	SG 1.0200	
FFM 1.319	FF 1.321	SFFP 0.360
FAM 1.034	FA 1.035	SAFP 9.513
W1 65.0	PD1 587.2	WD 10.765
W2 65.0	PD2 571.9	GSA 1.0
W3 65.0	PD3 595.1	RSA 1.0
W4 65.0	PD4 574.2	PLM 9000.0
LCF from stem on CL / on sheer		5.620 / 5.878
Maximum beam station from stem		6.210
RM Measured		94.7kg·m
RM Default		103.7kg·m
Limit of positive stability / Stab.Index		113.0° / 113.6
Freeboard at mast at 3.725		1.159

RIG				
Forestay Tension Aft	Spreaders 2			
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 12.785	E 4.505	MDT1 0.106	MW 0.192	
IG 13.432	J 3.675	MDL1 0.194	GO 0.192	
ISP 14.315	SFJ 0.050	MDT2 0.098	BD 0.144	
BAS 1.685	SPL 3.835	MDL2 0.070	MWT	
FSP 0.060	TPS	TL 2.240	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.410	
Type Folding 2 blades	PBW 0.120	
Twin Screw No	PIPA 0.0039	
ST1 0.066	ST3 0.175	ST5 0.335
ST2 0.175	ST4 0.110	EDL 2.340

COMMENTS

MOVEABLE BALLAST
N/A

CENTERBOARD
N/A



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IMS Measurement Certificate

Certificate
Number 003/17
ORC Ref ROU00075973
Issued On 14/05/2017
VPP Ver. 2017 1.00
Valid until 31/12/2017



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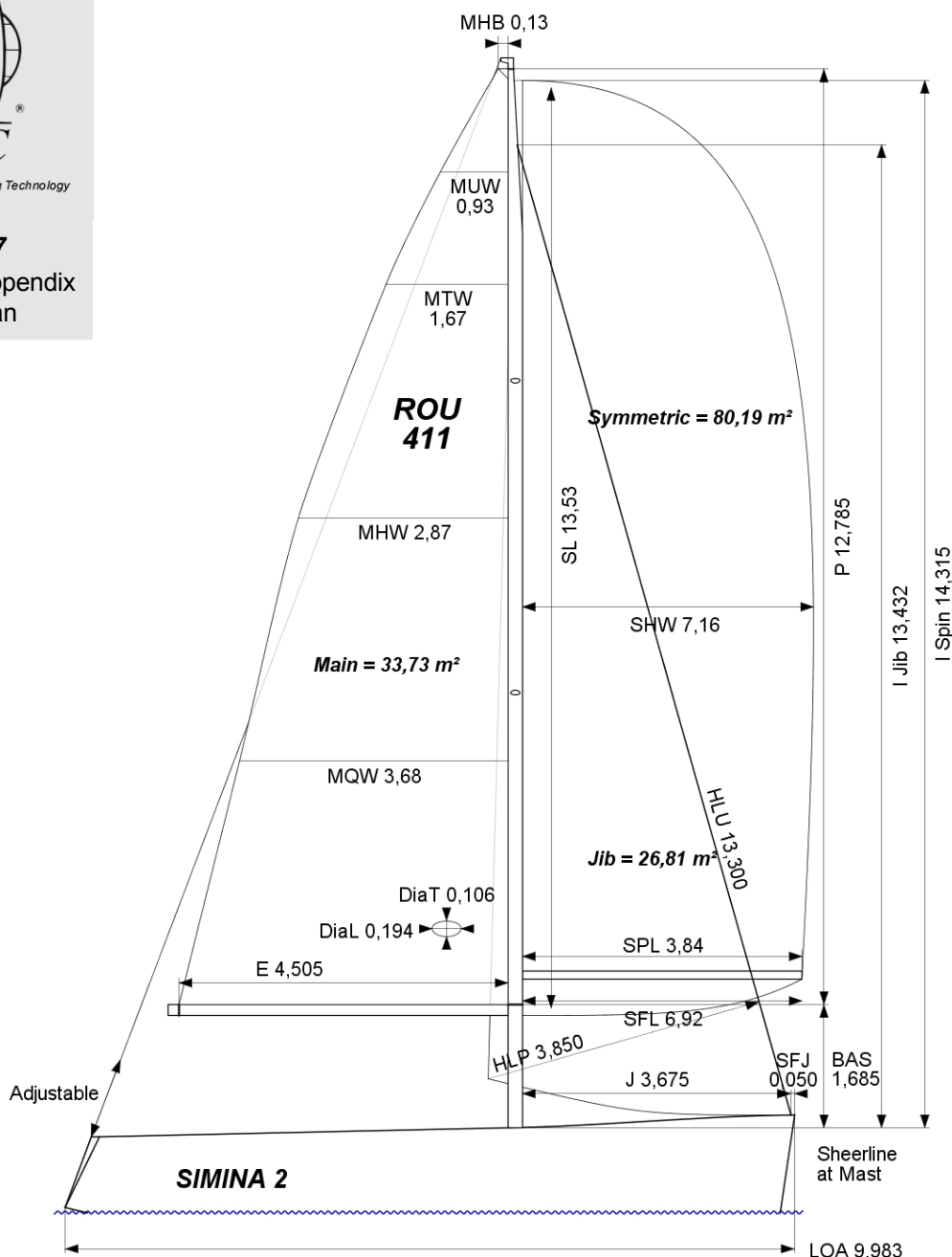
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.130	0.93	1.67	2.87	3.68	33.73	34.37	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	13.53	13.53	13.53	7.16	6.92	80.19		SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

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	Fly	Meas.Date	Material	Comment
0.08	0.58	1.09	2.07	2.98	3.85	13.30	26.81	N		28/04/2017	Carbon	2017
0.08	0.54	1.06	2.04	2.97	3.85	13.35	26.66			23/04/2016	Carbon	
0.09	0.49	0.93	1.83	2.78	3.77	12.53	23.40			23/04/2016	Dacron	
0.08	0.47	0.89	1.75	2.60	3.48	10.98	19.24			23/04/2016	Unknow	
0.07	0.34	0.63	1.25	1.96	2.67	6.59	8.60				Dacron	



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (3)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0.130	0.93	1.67	2.87	3.68	33.73	a.panait	28/04/2017	One	Twaron	2017					
ms1	0.140	0.85	1.56	2.73	3.67	32.87	a.panait	23/04/2016	North Sails	Dacron						
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H1	0.08	0.58	1.09	2.07	2.98	3.85	13.30	105%	26.81	N		a.panait	28/04/2017	one	Carbon	2017
2	0.08	0.54	1.06	2.04	2.97	3.85	13.35	105%	26.66			panait	23/04/2016	north	Carbon	
1	0.09	0.49	0.93	1.83	2.78	3.77	12.53	103%	23.40			a.panait	23/04/2016	North	Dacron	
3	0.08	0.47	0.89	1.75	2.60	3.48	10.98	95%	19.24			panait	23/04/2016	north	Unknow	
storm	0.07	0.34	0.63	1.25	1.96	2.67	6.59	73%	8.60					els	Dacron	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S2	13.53	13.53	13.53	7.16	6.92	80.19	Adrian Nita	08/05/2015		Unknown						
S1.	13.47	13.47	13.47	7.18	6.87	79.90	One	28/04/2017	One	Nylon	red 2017					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				