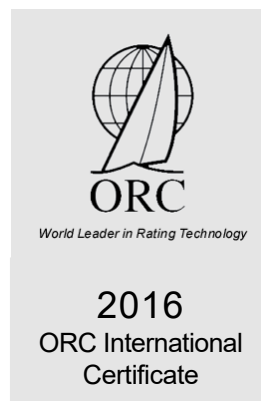


BOAT	GPH	HULL
Name PARALOS Sail Nr GRE-1275	645,5	Length Overall 9,983m Maximum Beam 3,466m Displacement 5.172kg Draft 2,057m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,225% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9,542m VCGD 0,162m Sink 17,71kg/mm
Class ELAN 340 Designer R. HUMPHREYS Builder ELAN Series 01/2006 Age 01/2007 Age Allowance 0,325% Offset File ELAN340.OFF - 16/2/2007 09:43:12 Measurement by KALATZIS - 27/04/2013		RL 8,005m VCGM 0,102m WS 23,38m²
		LSMO 9,566m Displacement/Length ratio 5,9084



SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	628,0			703,6		
Time On Time	0,9555			0,9594		
Performance Line	0,666	50,2		0,849	230,1	
Triple Number	Low 0,9143	Medium 1,1799	High 1,3197	Low 0,7061	Medium 0,9514	High 1,0989



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1109,1	919,4	812,7	746,3	719,6	707,1	694,5
52°	724,5	609,8	545,3	518,0	507,3	502,4	498,0
60°	682,8	576,5	526,4	504,6	493,2	487,9	484,1
75°	648,9	551,9	513,0	493,1	478,1	466,4	456,3
90°	642,8	538,8	501,5	489,3	477,4	461,7	435,1
110°	640,3	535,7	498,2	473,6	453,5	441,9	422,9
120°	661,1	549,0	504,9	480,0	455,2	430,8	404,8
135°	733,6	599,9	527,7	496,9	473,9	450,1	404,4
150°	863,8	691,2	589,9	534,4	507,1	488,9	451,2
Run VMG	997,4	798,1	681,2	617,1	573,8	528,2	483,9

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Selected Courses							
	1053,2	858,7	747,0	681,7	646,7	617,7	589,2
Windward / Leeward							
Circular Random	887,2	717,1	626,3	574,0	541,9	521,0	494,4
Ocean for PCS	1086,1	841,1	703,0	618,7	563,9	525,8	473,2
Non Spinnaker	956,4	764,7	660,0	598,0	559,6	534,5	503,2

Crew Weight	
Declared	600kg
Default*	646kg
Non Manual Pwr	No

Special Scoring		
	ToD	ToT
Non Spin GPH	681,4	0,8805
Non Spin OSN	658,8	0,9107
N/S Perf. Line	14,1	0,581

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	43,1°	41,2°	41,4°	40,2°	38,9°	38,3°	37,8°
Beat VMG	3,25	3,92	4,43	4,82	5,00	5,09	5,18
52°	4,97	5,90	6,60	6,95	7,10	7,17	7,23
60°	5,27	6,24	6,84	7,13	7,30	7,38	7,44
75°	5,55	6,52	7,02	7,30	7,53	7,72	7,89
90°	5,60	6,68	7,18	7,36	7,54	7,80	8,27
110°	5,62	6,72	7,23	7,60	7,94	8,15	8,51
120°	5,45	6,56	7,13	7,50	7,91	8,36	8,89
135°	4,91	6,00	6,82	7,25	7,60	8,00	8,90
150°	4,17	5,21	6,10	6,74	7,10	7,36	7,98
Run VMG	3,61	4,51	5,28	5,83	6,27	6,82	7,44
Gybe Angles	145,2°	148,1°	147,7°	149,7°	174,3°	177,1°	178,3°

Sails Limitations	
Headsails	6
Spinnakers	3

Class Division Length
CDL = 8,774

Storm Sails Areas	
Heavy Weather Jib	24,69
Storm Jib (JL=8,79)	9,15
Storm Trysail	10,14

Owner

BOAT	
Name PARALOS	Sail Nr GRE-1275
File GR1275.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 27/04/2013		SG 1,0210
FFM 1,312	FF 1,311	SFFP 0,360
FAM 1,039	FA 1,044	SAFP 9,513
W1 65,100	PD1 252,0	WD 10,244
W2 65,100	PD2 252,0	GSA 41,9
W3 65,100	PD3 252,0	RSA 6082,1
W4 65,100	PD4 252,0	PLM 2110,0
LCF from stem on CL / on sheer		5,598 / 5,854
Maximum beam station from stem		6,210
RM Measured		97,0kg·m
RM Default		104,0kg·m
Limit of positive stability / Stab.Index		114,7° / 115,2
Freeboard at mast at 3,717		1,156



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IMS Measurement Certificate

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 12,788	E 4,530	MDT1 0,103	MW 0,194	
IG 13,469	J 3,670	MDL1 0,194	GO 0,209	
ISP 14,339	SFJ 0,047	MDT2 0,103	BD 0,142	
BAS 1,679	SPL	MDL2 0,114	MWT	
FSP 0,062	TPS 4,550	TL 0,998	MCG	

Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,404	
Type Folding 2 blades	PBW 0,120	
Twin Screw No	PIPA 0,0037	
ST1 0,065	ST3 0,180	ST5 0,300
ST2 0,180	ST4 0,110	EDL 2,370

COMMENTS

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,150	1,15	1,91	2,95	3,76	35,23	36,11	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	15,65	13,01	14,33	7,64	7,21	90,21	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
0,09	0,55	1,05	1,99	2,92	3,85	13,33	26,32	Y		12/05/2015	Polyest	No 1 LIGHT
0,08	0,51	0,97	1,91	2,90	3,92	12,74	24,78	Y		28/03/2013	Pentex	HIGH TACK
0,08	0,49	0,94	1,87	2,84	3,84	13,02	24,77	Y		06/02/2011	Pentex	No 1

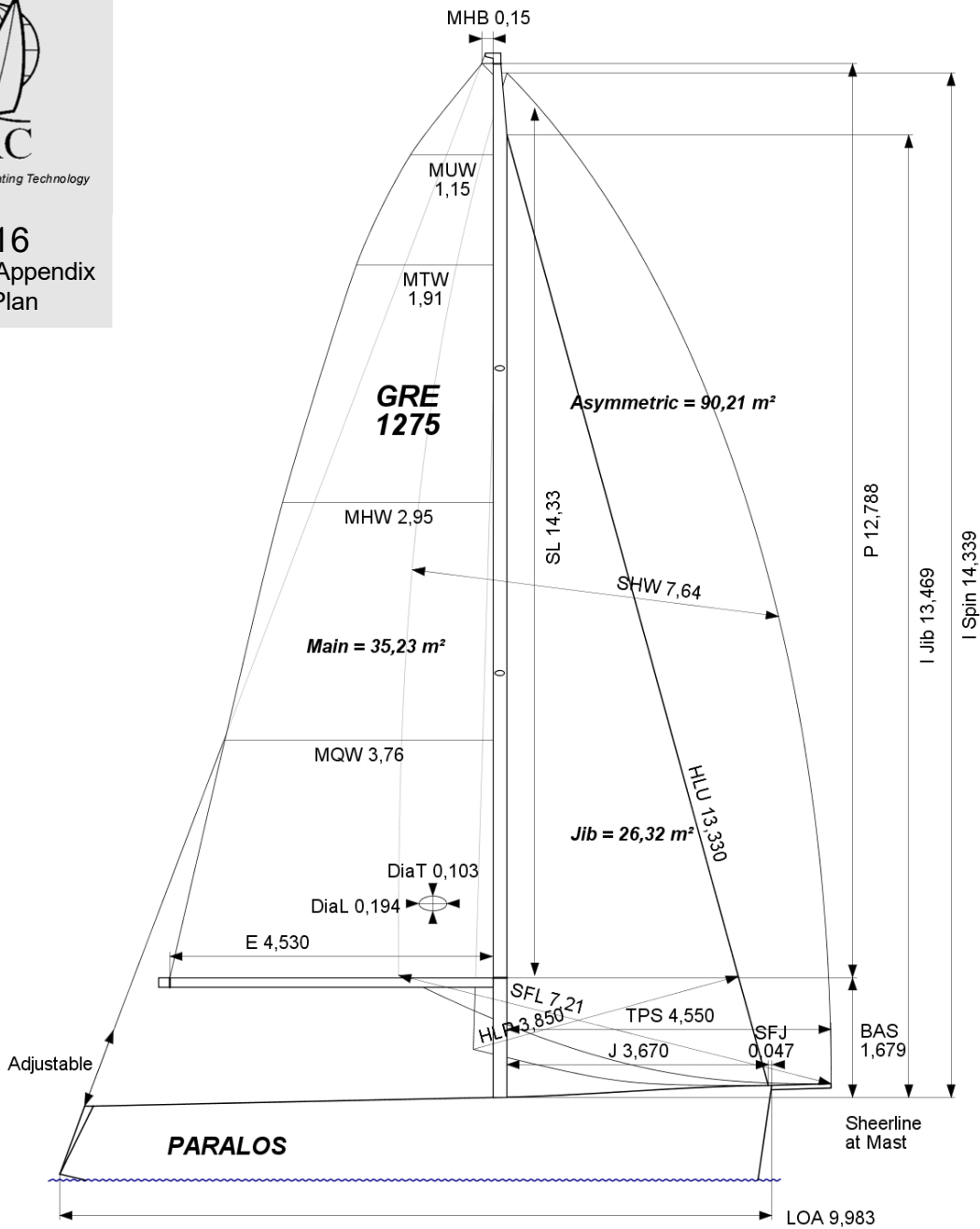
MEASUREMENT INVENTORY				
Measurer KALATZIS GRE-21				
Date 27/04/2013				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	VOLVO PENTA	D1-30	
Id	Item	Weight Description		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
1	Tank	FUEL	INOX	100,0	7,98	25,0
2	Tank	WATER	PVC hard	100,0	4,08	0,0 S
3	Tank	WATER	pv c hard	100,0	4,08	0,0 P
Id	Item	Weight	Distance	VCG Description		
1	Battery		5,08	2 x 100 Ah (P)		
2	Battery		5,08	1 x 70 Ah (P)		
1	Misc		0,95	ANCHOR WINDLASS LEWMAR X2		
2	Misc		4,67	WATER HEATER 20L (P)		



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,150	1,15	1,91	2,95	3,76	35,23	KALATZIS	26/02/2012	ZOUGANELI	Pentex	PX					
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,09	0,55	1,05	1,99	2,92	3,85	13,33	105%	26,32	Y		KALATZIS	12/05/2015	ZOUGANELI	Poly est	No 1 LIGHT
2	0,08	0,51	0,97	1,91	2,90	3,92	12,74	107%	24,78	Y		KALATZIS	28/03/2013	ZOUGANELI	Pentex	HIGH TACK
1	0,08	0,49	0,94	1,87	2,84	3,84	13,02	105%	24,77	Y		KALATZIS	06/02/2011	ZOUGANELI	Pentex	No 1
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	15,65	13,01	14,33	7,64	7,21	90,21	asym	KALATZIS	09/12/2015	ZOUGANELI	Nylon	BLACK				
1	13,90	12,99	13,45	7,27	7,62	82,24	asym	KALATZIS	15/03/2015	ZOUGANELI	Nylon	WHITE				