

BOAT Name Ghost Sail Nr ISR 555	GPH 593.6	HULL Length Overall 12.120m Maximum Beam 3.842m Displacement 8,973kg Draft 2.498m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.082% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class Grand Soleil 40 BC Designer Botin/Carkeek Builder Del Pardo Series 01/2007 Age 01/2007 Age Allowance 0.357% Offset File GS40BC07.OFF - 14/06/2007 18:47:30 Measurement by Roni Raviv - 03/08/2018		IMSL 11.202m VCGD 0.120m Sink 24.96kg/mm RL 9.933m VCGM 0.118m WS 32.15m² LSM0 11.052m Displacement/Length ratio 6.6468



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	576.4			640.4		
Time on Time	1.0410			1.0540		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	681.2	525.4	470.4	877.5	645.1	557.6
Time on Time	0.9909	1.2848	1.4348	0.7692	1.0463	1.2105

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	969.0	806.7	714.3	670.0	651.6	642.9	639.4
52°	642.9	542.5	493.1	474.4	467.2	463.7	461.6
60°	612.5	520.0	480.6	464.3	456.5	452.6	449.5
75°	590.6	505.9	472.0	455.6	444.5	436.7	429.6
90°	596.7	508.6	471.5	453.1	439.4	427.4	408.9
110°	620.5	510.9	465.5	444.0	426.4	414.2	397.3
120°	637.1	523.7	471.5	447.3	427.8	408.9	382.0
135°	701.8	572.4	497.2	463.0	442.5	423.1	384.2
150°	836.9	665.1	562.2	496.0	464.3	444.8	408.1
Run VMG	966.3	768.0	649.2	568.1	515.8	476.9	436.7

Certificate

Number **030818**
ORC Ref **ISR00000131**
Issued On **19/08/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 794kg
Maximum **794kg**
Minimum* **596kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	596.5	1.0059
Double H.OSN	580.8	1.0330
Non Spin GPH	618.8	0.9696
Non Spin OSN	600.7	0.9989

Selected Courses							
Windward / Leeward	967.7	787.3	681.7	619.0	583.7	559.9	538.0
Circular Random	817.4	660.0	575.8	527.3	497.9	479.2	456.9
Coastal / Long Distance	967.5	740.7	615.3	542.7	506.7	479.4	438.1
Non Spinnaker	862.4	692.0	599.6	545.6	512.4	491.1	465.3

Sails Limitations

Headsails	Spinnakers
6	4

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	42.2°	40.5°	40.1°	38.8°	37.7°	37.3°	37.0°
Beat VMG	3.72	4.46	5.04	5.37	5.53	5.60	5.63
52°	5.60	6.64	7.30	7.59	7.70	7.76	7.80
60°	5.88	6.92	7.49	7.75	7.89	7.95	8.01
75°	6.10	7.12	7.63	7.90	8.10	8.24	8.38
90°	6.03	7.08	7.63	7.95	8.19	8.42	8.80
110°	5.80	7.05	7.73	8.11	8.44	8.69	9.06
120°	5.65	6.87	7.64	8.05	8.41	8.80	9.42
135°	5.13	6.29	7.24	7.78	8.13	8.51	9.37
150°	4.30	5.41	6.40	7.26	7.75	8.09	8.82
Run VMG	3.73	4.69	5.55	6.34	6.98	7.55	8.24
Gybe Angles	140.4°	149.5°	150.2°	155.0°	168.6°	180.0°	180.0°

Class Division Length

CDL = **10.568**

Storm Sails Areas

Heavy Weather Jib **32.86**
Storm Jib (JL=10.14) **12.17**
Storm Trysail **14.28**

Owner

BOAT	
Name Ghost	Sail Nr ISR 555
File ISR555	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Boom Inclining			
Flotation date 03/08/2018		SG 1.0290	
FFM 1.485	FF 1.480	SFFP 0.432	
FAM 1.110	FA 1.114	SAFP 11.546	
W1 85.0	PD1 170.0	WD 4.940	
W2 85.0	PD2 173.2	GSA 1.0	
W3 85.0	PD3 171.6	RSA 1.0	
W4 85.0	PD4 169.8	PLM 9000.0	
LCF from stem on CL / on sheer		6.802 / 7.060	
Maximum beam station from stem		7.751	
RM Measured		193.2kg-m	
RM Default		208.0kg-m	
Limit of positive stability / Stab.Index		113.2° / 118.7	
Freeboard at mast at 4.955		1.247	



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IMS Measurement Certificate

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 15.450	E 5.280	MDT1 0.117	MW 0.215
IG 15.510	J 4.600	MDL1 0.215	GO 0.242
ISP 15.602	SFJ 0.355	MDT2 0.117	BD 0.220
BAS 1.598	SPL 4.910	MDL2 0.177	MWT
FSP 0.064	TPS 0.000	TL 0.757	MCG

Certificate	
Number 030818	
ORC Ref ISR00000131	
Issued On 19/08/2018	
VPP Ver. 2018 1.00	
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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.440		
Type Feathering 3 blades	PBW 0.122		
Twin Screw No	PIPA 0.0041		
ST1 0.065	ST3 0.180	ST5 0.292	
ST2 0.180	ST4 0.110	EDL 2.760	

COMMENTS	

MOVABLE BALLAST	
N/A	



Invalid for Racing

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CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.200	1.11	1.97	3.41	4.46	48.64	49.58	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	114.30		SL · (SFL + 4·SHW) / 6	
	16.05	16.05	16.05	8.50	8.73				
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
0.07	0.91	1.74	3.42	5.04	6.68	15.37	52.09			01/11/2017	Kevlar	
0.10	0.80	1.50	2.97	4.51	6.12	15.23	46.09			08/08/2018	Kevlar	
0.07	0.71	1.36	2.82	4.41	6.09	15.07	44.15			08/08/2018	Kevlar	
0.05	0.77	1.41	2.67		5.19	15.55	41.21			08/08/2018	Kevlar	
0.06	0.53	0.96	1.90	2.91	4.05	14.42	28.34			12/08/2018	Kevlar	

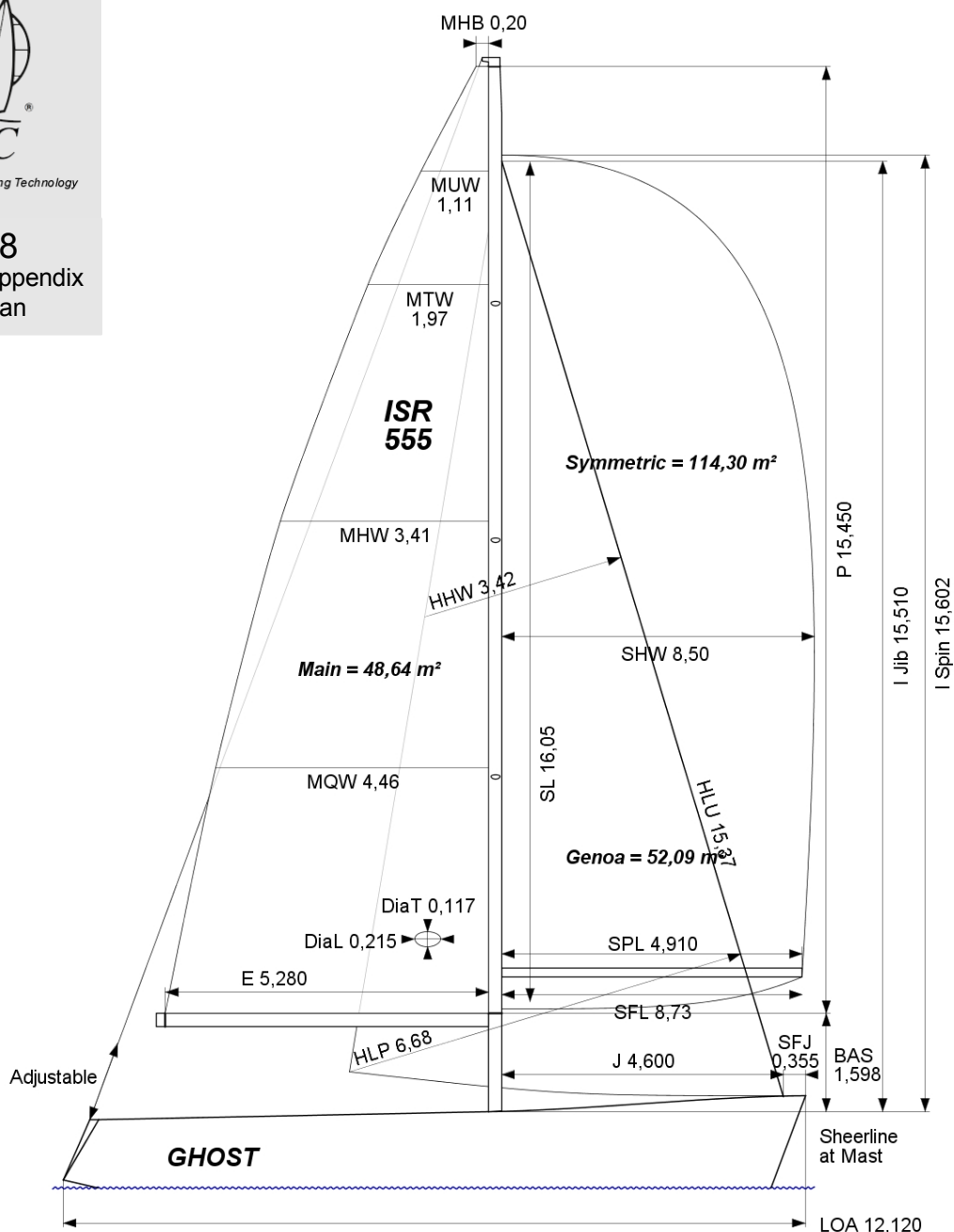
MEASUREMENT INVENTORY				
Measurer Roni Raviv ISR-1				
Date 03/08/2018				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO	40HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
B	Tank	Water	PVC	360.0	10.30	0.0
A	Tank	Diesel	INOX	200.0	10.30	40.0
Id	Item	Weight	Distance	VCG Description		
C	Misc	40.0		Bottels, Ropes, Fenders, Miss		



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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
M1	0.200	1.11	1.97	3.41	4.46	48.64	NS-ISR	08/08/2018	NS	Carbon	

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.07	0.91	1.74	3.42	5.04	6.68	15.37	145%	52.09			NS-ISR	01/11/2017	NS	Kevlar	
J3	0.10	0.80	1.50	2.97	4.51	6.12	15.23	133%	46.09			NS-ISR	08/08/2018	NS	Kevlar	
J2	0.07	0.71	1.36	2.82	4.41	6.09	15.07	132%	44.15			NS-ISR	08/08/2018	NS	Kevlar	
J4	0.05	0.77	1.41	2.67		5.19	15.55	113%	41.21			NS-ISR	08/08/2018	NS	Kevlar	
J4A	0.06	0.53	0.96	1.90	2.91	4.05	14.42	88%	28.34			NS-ISR	12/08/2018	NS	Kevlar	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
SP1	16.05	16.04	16.05	8.50	8.73	114.27	NS-ISR	12/08/2018	NS	Unknown	

ASYMMETRIC SPINNAKERS (0)

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