

BOAT Name SB3 1 Sail Nr GRE-1861	GPH 705.9	HULL Length Overall 6.141m Maximum Beam 2.142m Displacement 697kg Draft 1.508m Plan Review IMS Reg. Division Sportboat Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder No Crew Arm Extension 0.50
GENERAL Class SB20 ONE DESIGN Designer TONY CASTRO Builder LASER Series 08/2003 Age 01/2010 Age Allowance 0.487% Offset File lasb3.OD.off - 06/01/2020 18:25:28 Measurement by - 16/03/2012		IMSLS 5.936m VCGD -0.192m Sink 6.43kg/mm RL 6.091m VCGM -0.172m WS 8.47m² LSM0 5.747m Displacement/Length ratio 3.6721



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	688.3			779.3		
Time on Time	0.8717			0.8662		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	786.1	635.7	555.3	1000.7	784.5	682.7
Time on Time	0.8587	1.0618	1.2156	0.6745	0.8604	0.9887

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1177.6	982.5	883.9	855.6	851.5	852.6	855.5
52°	775.9	671.4	632.2	614.7	608.5	606.0	595.7
60°	736.3	651.9	616.9	591.5	581.4	576.4	562.3
75°	710.7	639.0	600.7	562.7	538.3	527.3	515.5
90°	678.8	612.1	583.4	554.5	515.8	485.0	461.4
110°	671.3	598.7	542.0	507.7	483.6	458.7	415.1
120°	686.8	608.0	546.4	490.1	453.3	428.5	375.1
135°	754.9	640.5	581.3	524.3	467.0	413.4	310.6
150°	884.4	711.7	636.8	592.0	540.8	486.9	335.1
Run VMG	1021.2	821.8	734.6	675.2	624.4	562.2	387.0

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Crew Weight
Default 312kg
Maximum **270kg**
Minimum* **185kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 754.4	0.7953
Non Spin OSN 729.9	0.8220

Selected Courses							
Windward / Leeward	1099.4	902.1	809.2	765.4	738.0	707.4	621.3
Circular Random	950.2	778.4	687.5	633.3	596.2	566.3	513.7
Coastal / Long Distance	1091.6	850.9	735.1	664.5	617.6	573.5	484.4
Non Spinnaker	1037.4	838.8	732.4	669.9	630.0	601.7	559.9

Sails Limitations

Headsails	Spinnakers
5	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	42.0°	40.9°	38.3°	37.5°	37.5°	37.9°	39.2°
Beat VMG	3.06	3.66	4.07	4.21	4.23	4.22	4.21
52°	4.64	5.36	5.69	5.86	5.92	5.94	6.04
60°	4.89	5.52	5.84	6.09	6.19	6.25	6.40
75°	5.07	5.63	5.99	6.40	6.69	6.83	6.98
90°	5.30	5.88	6.17	6.49	6.98	7.42	7.80
110°	5.36	6.01	6.64	7.09	7.44	7.85	8.67
120°	5.24	5.92	6.59	7.35	7.94	8.40	9.60
135°	4.77	5.62	6.19	6.87	7.71	8.71	11.59
150°	4.07	5.06	5.65	6.08	6.66	7.39	10.74
Run VMG	3.53	4.38	4.90	5.33	5.77	6.40	9.30
Gybe Angles	146.0°	149.3°	151.0°	176.0°	144.5°	143.0°	141.8°

Class Division Length
CDL = **6.008**

Storm Sails Areas

Heavy Weather Jib	7.66
Storm Jib (JL=4.90)	2.84
Storm Trysail	4.46

Owner

BOAT	
Name SB3 1 File GR1861	Sail Nr GRE-1861 Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	

P 7.950	E 3.200	MDT1 0.070	MW 0.090
IG 7.340	J 2.180	MDL1 0.100	GO 0.145
ISP 8.940	SFJ 0.050	MDT2 0.070	BD 0.140
BAS 0.940	SPL 0.000	MDL2 0.082	MWT 31.10
FSD	TPS 4.050	TL 1.400	MCG 3.290

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 18/05/2016		SG 1.0260	
FFM 0.705	FF 0.705	SFFP 0.270	
FAM 0.472	FA 0.472	SAFP 6.071	
W1 17.9	PD1 568.3	WD 6.160	
W2 17.9	PD2 566.3	GSA 1.0	
W3 17.9	PD3 569.1	RSA 1.0	
W4 17.9	PD4 565.9	PLM 9000.0	
LCF from stem on CL / on sheer		3.501 / 3.642	
Maximum beam station from stem		4.000	
RM Measured		15.3kg·m	
RM Default		15.6kg·m	
Limit of positive stability / Stab.Index		108.6° / 99.6	
Freeboard at mast at 2.230		0.591	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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COMMENTS	
BASED ON ONE DESIGN DATA.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.24	0.82	1.44	2.33	2.92	16.70	17.38	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	10.50	8.54	9.52	5.50	5.38	43.44	AS · (SFL + 4·SHW) / 6		

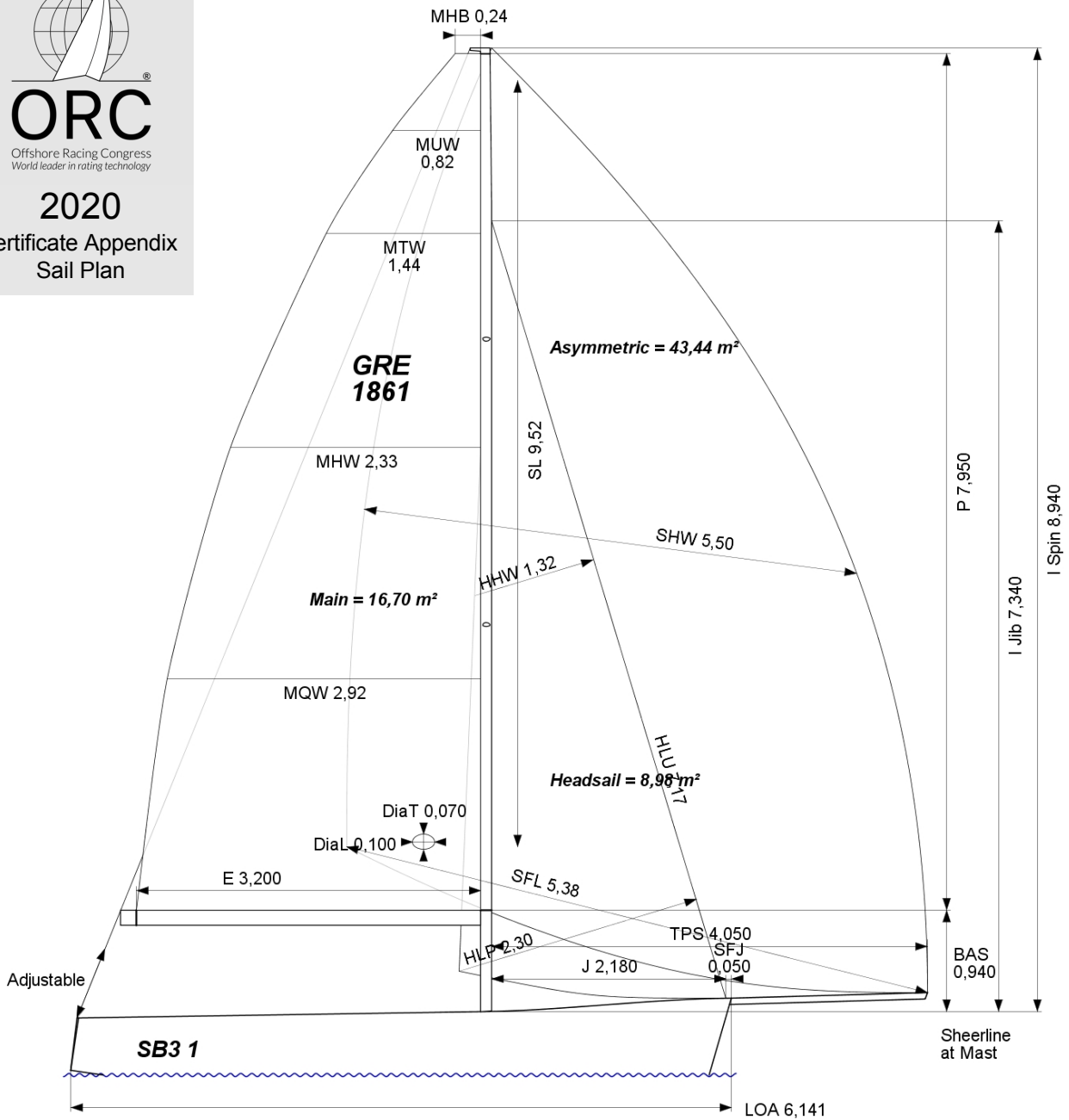
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.06	0.38	0.72	1.32	1.84	2.30	7.17	8.98	No			Unknow	



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.24	0.82	1.44	2.33	2.92	16.70				Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.38	0.72	1.32	1.84	2.30	7.17	106%	8.98		No				Unknown	

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	10.50	8.54	9.52	5.50	5.38	43.45	asym				Unknown	