

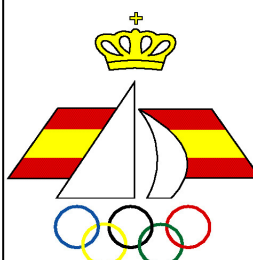
BOAT Name BOND Sail Nr GBR-4485L	GPH 629,3	HULL Length Overall 9,790m Maximum Beam 3,434m Displacement 3.651kg Draft 1,933m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,180% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 9,180m VCGD -0,128m Sink 16,90kg/mm RL 8,462m VCGM -0,097m WS 21,66m² LSM0 8,785m Displacement/Length ratio 5,3850
GENERAL Class SUN FAST 3200 Sdt Designer ANDRIEU Daniel Builder JEANNEAU Series 01/2008 Age 02/2008 Age Allowance 0,325% Offset File SF3200(DT).off - 22/05/2014 17:47:11 Measurement by F.GIL - 03/10/2017		



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2018
ORC International
Certificate

Rating Office
R.F.E.V.
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28002 Madrid
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	609,4			681,8		
Time on Time	0,9845			0,9900		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	726,8	555,8	491,6	937,5	683,4	594,4
Time on Time	0,9287	1,2144	1,3732	0,7200	0,9877	1,1356

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1079,2	882,2	772,4	725,9	710,2	704,2	693,5
52°	707,3	589,0	531,7	510,3	503,0	499,7	493,9
60°	669,5	563,4	517,6	497,5	488,3	483,9	478,7
75°	642,1	546,3	507,5	485,2	467,5	456,4	448,6
90°	648,6	539,1	497,9	478,0	461,6	441,0	414,1
110°	642,8	532,3	489,8	459,6	433,3	414,6	389,1
120°	659,6	543,0	495,5	462,9	430,9	403,5	363,5
135°	728,3	587,7	517,8	484,0	452,8	422,0	358,9
150°	865,5	683,4	576,0	516,0	485,0	456,5	401,0
Run VMG	999,4	789,1	664,8	586,4	533,9	498,3	444,7

Certificate
Number **448501**
ORC Ref **ESP00027502**
Issued On **30/01/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight
Default 572kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	631,7	0,9498
Double H.OSN	613,3	0,9783
Non Spin GPH	667,3	0,8991
Non Spin OSN	645,4	0,9297

Selected Courses							
Windward / Leeward	1039,3	835,6	718,6	656,2	622,1	601,2	569,1
Circular Random	872,3	701,7	610,1	556,9	523,8	501,3	470,4
Coastal / Long Distance	1035,3	785,0	649,4	575,0	535,6	502,8	447,3
Non Spinnaker	939,4	749,4	646,0	585,2	547,5	522,5	489,7

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	42,9°	41,5°	40,3°	38,7°	38,7°	38,6°	38,7°
Beat VMG	3,34	4,08	4,66	4,96	5,07	5,11	5,19
52°	5,09	6,11	6,77	7,05	7,16	7,20	7,29
60°	5,38	6,39	6,96	7,24	7,37	7,44	7,52
75°	5,61	6,59	7,09	7,42	7,70	7,89	8,02
90°	5,55	6,68	7,23	7,53	7,80	8,16	8,69
110°	5,60	6,76	7,35	7,83	8,31	8,68	9,25
120°	5,46	6,63	7,26	7,78	8,35	8,92	9,90
135°	4,94	6,13	6,95	7,44	7,95	8,53	10,03
150°	4,16	5,27	6,25	6,98	7,42	7,89	8,98
Run VMG	3,60	4,56	5,41	6,14	6,74	7,22	8,10
Gybe Angles	145,0°	148,7°	150,4°	157,3°	175,5°	180,0°	180,0°

Class Division Length
CDL = **8,822**

Storm Sails Areas


Heavy Weather Jib	23,10
Storm Jib (JL=8,50)	8,55
Storm Triesail	9,58

Owner

BOAT	
Name BOND	Sail Nr GBR-4485L
File GBR4485	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining		Flotation date 03/10/2017 SG 1,0270	
FFM 1,264	FF 1,268	SFFP 0,440	
FAM 0,988	FA 0,986	SAFP 9,300	
W1 60,0	PD1 470,6	WD 10,930	
W2 60,0	PD2 470,6	GSA 1,0	
W3 60,0	PD3 463,3	RSA 1,0	
W4 60,0	PD4 464,2	PLM 9000,0	
LCF from stem on CL / on sheer		5,501 / 5,744	
Maximum beam station from stem		7,091	
RM Measured		110,6kg-m	
RM Default		95,8kg-m	
Limit of positive stability / Stab.Index		122,4° / 117,2	
Freeboard at mast at 3,850		1,131	

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 11,900	E 4,600	MDT1 0,121	MW 0,150
IG 13,080	J 3,850	MDL1 0,150	GO 0,150
ISP 13,400	SFJ	MDT2 0,121	BD
BAS 1,570	SPL 3,850	MDL2 0,150	MWT
FSP 0,060	TPS 4,300	TL	MCG



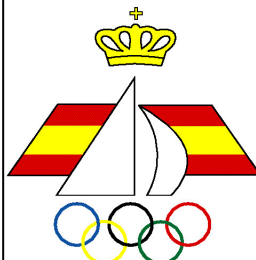
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2018

IMS Measurement Certificate

Certificate

Number **448501**
 ORC Ref **ESP00027502**
 Issued On **30/01/2018**
 VPP Ver. **2018 1.00**
 Valid until **31/12/2018**



MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,300	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0,0032	
ST1 0,040	ST3	ST5 0,260
ST2	ST4 0,102	EDL 0,960

COMMENTS

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0,320	0,94	1,67	2,75	3,61	31,13 31,68 P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	82,55 SL · (SFL + 4·SHW) / 6
Asymmetric	SLU	SLE	SL	SHW	SFL	71,19 AS · (SFL + 4·SHW) / 6
	13,38	13,38	13,38	7,41	7,38	
	13,95	12,77	13,36	6,18	7,25	

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
0,05	1,29	2,28	3,19	4,20	12,80	28,13	Y				Unknown	

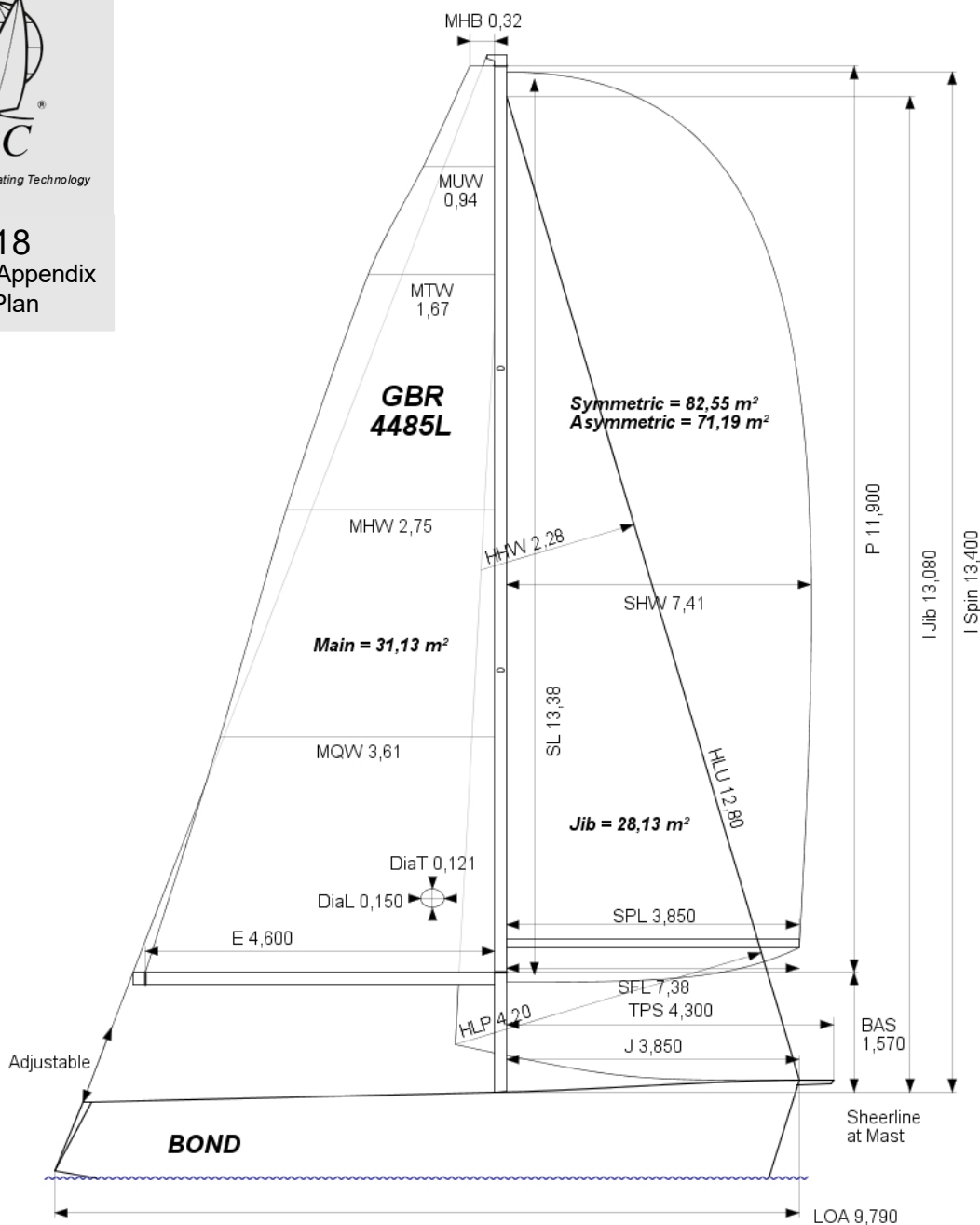
MEASUREMENT INVENTORY				
Measurer F.GIL				
Date 03/10/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

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</i>	<i>Description</i>	
001	Tank	GASOIL				40,0			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					



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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
001	0,320	0,94	1,67	2,75	3,61	31,13				Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
002	0,05		1,29	2,28	3,19	4,20	12,80	109%	28,13	Y						Unknow

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
001	13,38	13,38	13,38	7,41	7,38	82,55				Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
asy1	13,95	12,77	13,36	6,18	7,25	71,19	asym	francisco gil	03/10/2017	SP	Nylon	