

BOAT Name JUST4FUN Sail Nr ESP-1103	GPH 667,4	HULL Length Overall 8,000m Maximum Beam 2,488m Displacement 1.525kg Draft 1,511m IMS Reg. Division Sportboat Dynamic Allowance 0,149% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class J 80 Designer JOHNSTONE Builder J COMPOSITE Series 01/2008 Age 06/2008 Age Allowance 0,325% Offset File IJ80.OFF - 25/11/1997 11:21:32 Measurement by J.BELTRAN - 05/10/2017		IMSL 7,309m VCGD -0,165m Sink 9,27kg/mm RL 6,995m VCGM -0,102m WS 12,18m² LSM0 7,030m Displacement/Length ratio 4,3894



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	651,3			734,9		
Time on Time	0,9213			0,9185		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	746,3	597,3	533,9	956,9	734,5	652,5
Time on Time	0,9045	1,1301	1,2642	0,7054	0,9190	1,0345

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1118,9	924,4	825,8	798,4	789,8	782,3	777,1
52°	737,3	621,0	579,8	566,3	560,8	558,1	548,9
60°	699,1	600,0	565,8	549,7	542,3	538,1	526,0
75°	670,7	586,3	553,1	529,4	511,7	502,2	494,4
90°	651,5	569,8	546,7	523,5	495,8	474,6	452,3
110°	640,4	558,4	518,5	490,1	469,8	451,5	417,4
120°	657,6	565,2	520,6	479,4	447,6	426,2	385,1
135°	731,0	598,1	545,4	503,3	461,5	419,0	335,7
150°	859,2	685,9	593,2	552,0	521,7	486,5	390,2
Run VMG	992,2	792,0	685,0	635,7	587,4	552,0	450,5

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VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight
Default **416kg**
Maximum **338kg**
Minimum* **253kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	676,4	0,8870
Double H.OSN	662,4	0,9059
Non Spin GPH	712,1	0,8426
Non Spin OSN	690,4	0,8691

Selected Courses							
Windward / Leeward	1055,5	858,2	755,4	717,0	688,6	667,1	613,8
Circular Random	902,9	736,0	648,7	598,8	567,0	543,4	504,4
Coastal / Long Distance	1049,2	807,6	686,4	624,4	584,3	548,7	480,0
Non Spinnaker	986,8	793,6	690,3	630,5	593,4	568,3	533,0

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	42,3°	41,4°	39,4°	38,4°	38,5°	38,3°	38,9°
Beat VMG	3,22	3,89	4,36	4,51	4,56	4,60	4,63
52°	4,88	5,80	6,21	6,36	6,42	6,45	6,56
60°	5,15	6,00	6,36	6,55	6,64	6,69	6,84
75°	5,37	6,14	6,51	6,80	7,04	7,17	7,28
90°	5,53	6,32	6,58	6,88	7,26	7,59	7,96
110°	5,62	6,45	6,94	7,35	7,66	7,97	8,62
120°	5,47	6,37	6,92	7,51	8,04	8,45	9,35
135°	4,92	6,02	6,60	7,15	7,80	8,59	10,73
150°	4,19	5,25	6,07	6,52	6,90	7,40	9,23
Run VMG	3,63	4,55	5,26	5,66	6,13	6,52	7,99
Gybe Angles	145,1°	148,0°	149,8°	151,4°	176,4°	177,5°	139,9°

Class Division Length
CDL = **7,153**

Storm Sails Areas


Heavy Weather Jib	12,31
Storm Jib (JL=6,21)	4,56
Storm Triesail	6,11

Owner

BOAT	
Name JUST4FUN File E1103J80	Sail Nr ESP-1103 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 05/10/2017		SG 1,0270
FFM 0,878	FF 0,878	SFFP 0,177
FAM 0,608	FA 0,608	SAFP 8,015
W1 25,0	PD1 547,6	WD 8,140
W2 25,0	PD2 542,1	GSA 1,0
W3 25,0	PD3 546,3	RSA 1,0
W4 25,0	PD4 545,4	PLM 9000,0
LCF from stem on CL / on sheer		4,319 / 4,483
Maximum beam station from stem		4,712
RM Measured		29,4kg·m
RM Default		29,1kg·m
Limit of positive stability / Stab.Index		112,9° / 107,0
Freeboard at mast at 2,880		0,738

RIG				
Forestay Tension Aft	Spreaders 2		Runners 0	
Inner Stay None Fitted	Jumper Struts None		Jib Furler Yes	
Carbon Mast No	Main Furler No		Without Backstay No	
Taper Hollows No	Main Furler No		Without Backstay No	
Fiber Rigging No	Main Furler No		Without Backstay No	
Lenticular Rigging No	Main Furler No		Without Backstay No	
Articulated Bowsprit No	Main Furler No		Without Backstay No	
P 9,160	E 3,810	MDT1 0,081	MW 0,133	
IG 9,550	J 2,880	MDL1 0,133	GO 0,133	
ISP 10,060	SFJ	MDT2 0,065	BD 0,094	
BAS 1,300	SPL	MDL2 0,103	MWT 55,00	
FSP 0,052	TPS 4,700	TL 0,310	MCG 3,450	



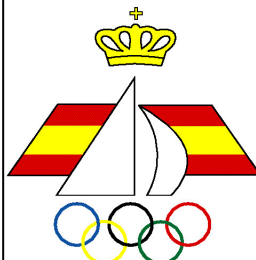
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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,150	0,79	1,42	2,44	3,22	20,75	21,34	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	AS · (SFL + 4·SHW) / 6		
	12,00	9,60	10,80	6,89	7,30	62,75			

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	0,73		1,46	2,19	2,93	15,12	Y			05/10/2017	Unknow	
0,06	0,41	0,76	1,44	2,15	2,88	9,20	13,37	Y				

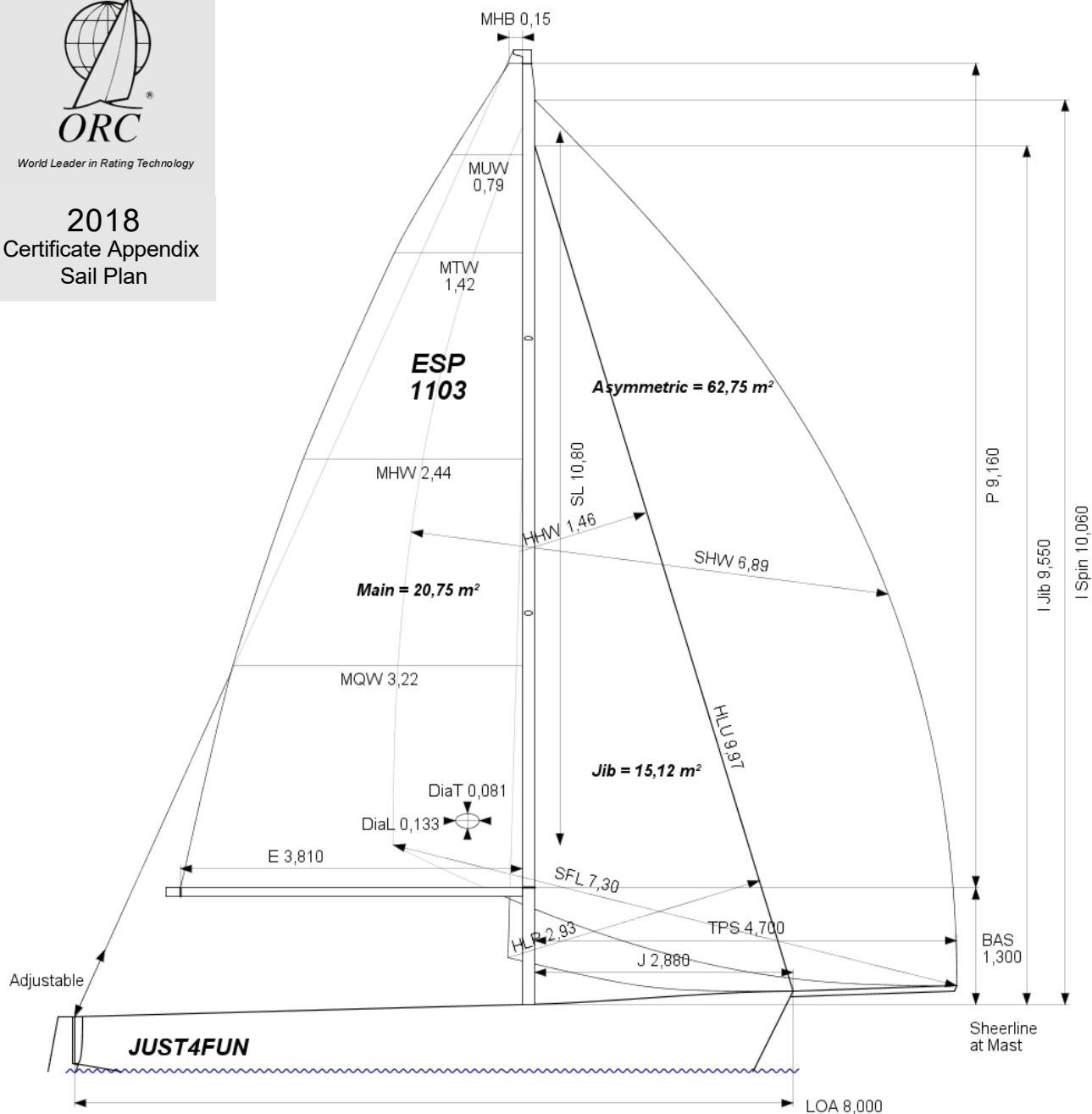
MEASUREMENT INVENTORY				
Measurer JUANJO BELTRAN ESP 493				
Date 05/10/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
001	0,150	0,79	1,42	2,44	3,22	20,75	BELTRAN	05/10/2017			

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
002	0,07	0,73		1,46	2,19	2,93	9,20	102%	15,12	Y		BELTRAN	05/10/2017			Unknown
001	0,06	0,41	0,76	1,44	2,15	2,88	9,20	100%	13,37	Y						

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
001	12,00	9,60	10,80	6,89	7,30	62,75	asym					