


BOAT Name JUST4FUN Sail Nr ESP-1103	GPH 672,9	HULL Length Overall 8,032m Maximum Beam 2,488m Displacement 1.525kg Draft 1,511m IMS Reg. Division Sportboat Dynamic Allowance 0,152% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class J80 Designer JOHNSTONE Builder J COMPOSITE Series 01/2008 Age 06/2008 Age Allowance 0,292% Offset File IJ80.OFF - 25/11/1997 12:21:32 Measurement by J.BELTRAN - 05/10/2017		IMSL 7,309m VCGD -0,165m Sink 9,27kg/mm RL 6,783m 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		
	Low	Medium	High	Low	Medium	High
Time On Distance	657,2			744,3		
Time On Time	0,9130			0,9068		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	757,7	601,0	532,8	979,8	744,5	655,1
Time on Time	0,8908	1,1231	1,2670	0,6889	0,9066	1,0303

TIME ALLOWANCES	Wind Velocity						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1159,7	959,8	850,1	810,8	795,0	786,5	775,2
52°	753,0	630,9	582,1	565,7	558,1	554,0	543,6
60°	705,6	602,2	565,3	546,6	537,1	531,4	519,3
75°	666,4	582,7	549,8	522,8	502,0	491,4	482,9
90°	649,7	566,8	543,7	518,1	488,6	464,0	440,6
110°	641,6	560,2	517,1	488,9	468,7	449,5	412,7
120°	661,2	567,8	524,4	479,3	447,5	426,4	383,3
135°	737,0	602,3	548,9	508,3	466,6	423,9	336,2
150°	867,1	691,6	597,3	556,0	526,1	491,3	395,2
Run VMG	1001,3	798,6	689,7	639,4	588,7	553,5	456,4

Selected Courses	Windward / Leeward							
	Circular Random	914,7	744,1	653,9	601,6	567,9	542,8	501,9
	Ocean for PCS	1119,8	871,7	732,9	647,3	589,3	545,2	475,3
	Non Spinnaker	994,1	798,7	693,4	631,8	593,1	566,6	529,1

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	43,5°	42,6°	41,2°	39,9°	39,4°	39,1°	39,5°
Beat VMG	3,10	3,75	4,23	4,44	4,53	4,58	4,64
52°	4,78	5,71	6,18	6,36	6,45	6,50	6,62
60°	5,10	5,98	6,37	6,59	6,70	6,77	6,93
75°	5,40	6,18	6,55	6,89	7,17	7,33	7,45
90°	5,54	6,35	6,62	6,95	7,37	7,76	8,17
110°	5,61	6,43	6,96	7,36	7,68	8,01	8,72
120°	5,44	6,34	6,86	7,51	8,04	8,44	9,39
135°	4,88	5,98	6,56	7,08	7,72	8,49	10,71
150°	4,15	5,21	6,03	6,47	6,84	7,33	9,11
Run VMG	3,60	4,51	5,22	5,63	6,11	6,50	7,89
Gybe Angles	145,1°	147,8°	149,7°	151,8°	176,5°	177,6°	138,6°

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VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight
Declared **338kg**
Default* **416kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	681,1	0,8809
Double H.OSN	667,0	0,8995
Non Spin GPH	715,3	0,8388
Non Spin OSN	694,8	0,8635

Sails Limitations

Headsails	Spinnakers
5	3

Class Division Length
CDL = **7,046**

Storm Sails Areas


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

Owner

BOAT	
Name JUST4FUN	Sail Nr ESP-1103
File E1103J80	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		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit 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



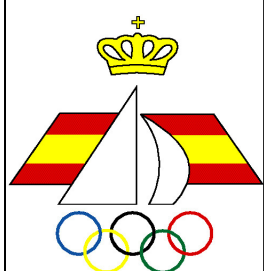
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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVEABLE 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	62,75	AS · (SFL + 4·SHW) / 6		
	12,00	9,60	10,80	6,89	7,30				

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				

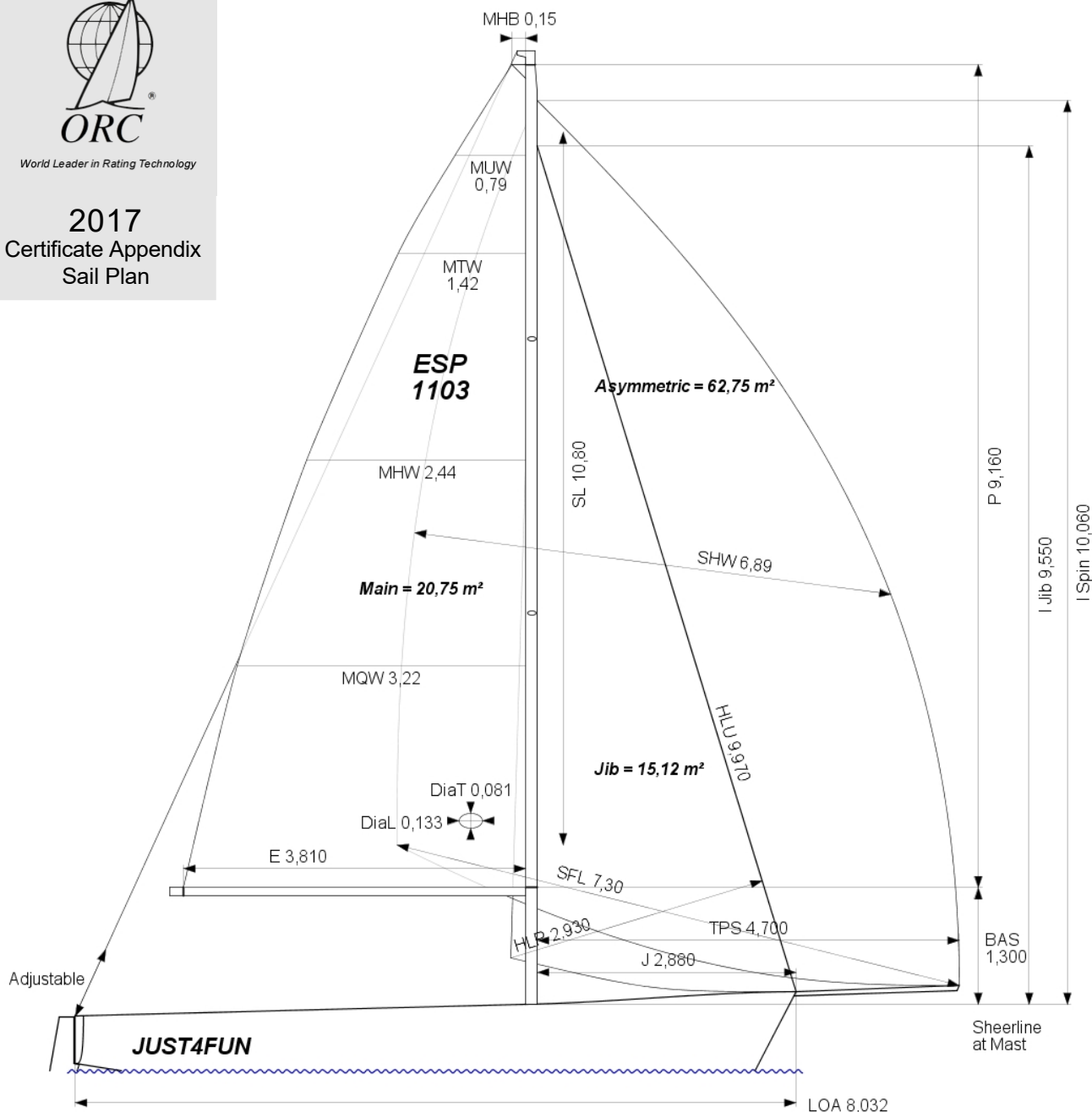
MEASUREMENT INVENTORY				
Measurer JUANJO BELTRAN				
Date 05/10/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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	2,93	102%	15,12	Y			BELTRAN	05/10/2017			Unknow
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					