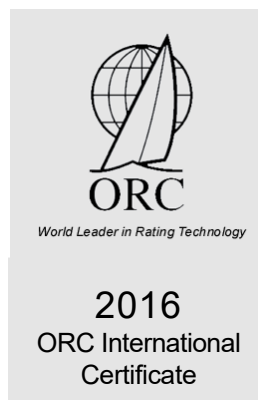


BOAT Name BANFF Sail Nr ESP-8218	GPH 660,5	HULL Length Overall 11,624m Maximum Beam 3,982m Displacement 7.738kg Draft 1,883m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,393% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class OCEANIS 393 Designer BERRET-RACOUPEAU Builder BENETEAU Series 01/2001 Age 04/2006 Age Allowance 0,488% Offset File OC393TS1.off - 04/03/2010 17:00:50 Measurement by JJBELTRAN - 14/10/2010		IMSL 10,708m VCGD 0,232m Sink 22,93kg/mm RL 7,246m VCGM 0,307m WS 30,73m² LSMO 10,710m Displacement/Length ratio 6,2988



Rating Office
R.F.E.V.
Luis de salazar,9
28002 Madrid

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	639,9			720,7		
Time On Time	0,9376			0,9366		
Performance Line	0,865	116,6		0,696	132,3	
Triple Number	Low 0,8642	Medium 1,1657	High 1,3362	Low 0,6598	Medium 0,9245	High 1,1035

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1204,7	981,1	863,0	784,5	744,4	724,9	714,7
52°	765,4	634,3	558,3	513,9	496,7	489,4	484,7
60°	708,8	593,0	524,6	492,2	478,2	472,4	468,2
75°	662,7	556,9	501,1	476,6	462,6	452,8	444,1
90°	663,9	558,4	501,8	477,3	462,1	449,2	427,5
110°	683,0	557,9	494,0	466,8	448,2	436,7	419,7
120°	703,1	573,3	501,6	471,3	451,0	430,9	403,8
135°	777,0	627,5	534,6	488,2	464,8	445,7	406,5
150°	927,0	724,2	606,8	531,0	488,7	466,5	430,5
Run VMG	1070,4	836,2	700,4	608,7	548,5	503,0	457,9

Certificate
Number **821801**
ORC Ref **ESP00016195**
Issued On **17/02/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**

Crew Weight
Declared **540kg**
Default* **759kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	663,4	0,9044
Double H.OSN	643,9	0,9319
Non Spin GPH	691,0	0,8683
Non Spin OSN	668,4	0,8976
N/S Perf. Line	53,3	0,709

Selected Courses							
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1137,5	908,7	781,7	696,6	646,4	613,9	586,3
Circular Random	930,6	742,6	639,6	578,4	540,7	516,6	489,5
Ocean for PCS	919,3	724,3	615,3	549,7	508,6	481,6	446,6
Non Spinnaker	985,2	781,3	668,4	600,6	558,2	530,7	498,8

Sails Limitations

Headsails	Spinnakers
1	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	45,8°	44,1°	43,7°	43,8°	42,8°	41,9°	41,6°
Beat VMG	2,99	3,67	4,17	4,59	4,84	4,97	5,04
52°	4,70	5,68	6,45	7,01	7,25	7,36	7,43
60°	5,08	6,07	6,86	7,31	7,53	7,62	7,69
75°	5,43	6,46	7,18	7,55	7,78	7,95	8,11
90°	5,42	6,45	7,17	7,54	7,79	8,01	8,42
110°	5,27	6,45	7,29	7,71	8,03	8,24	8,58
120°	5,12	6,28	7,18	7,64	7,98	8,35	8,91
135°	4,63	5,74	6,73	7,37	7,75	8,08	8,86
150°	3,88	4,97	5,93	6,78	7,37	7,72	8,36
Run VMG	3,36	4,31	5,14	5,91	6,56	7,16	7,86
Gybe Angles	146,2°	149,9°	150,7°	153,8°	164,1°	180,0°	180,0°

Class Division Length
CDL = **8,977**

Storm Sails Areas

Heavy Weather Jib	27,62
Storm Jib (JL=9,30)	10,23
Storm Trysail	9,88

Owner

BOAT	
Name BANFF	Sail Nr ESP-8218
File E8218.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 14/02/2016		SG 1,0270	
FFM 1,510	FF 1,509	SFFP 0,288	
FAM 1,230	FA 1,230	SAFP 10,761	
W1 70,000	PD1 459,7	WD 11,870	
W2 70,000	PD2 461,0	GSA 1,0	
W3 70,000	PD3 460,1	RSA 1,0	
W4 70,000	PD4 460,1	PLM 9000,0	
LCF from stem on CL / on sheer		6,464 / 6,741	
Maximum beam station from stem		7,557	
RM Measured		142,2kg·m	
RM Default		165,8kg·m	
Limit of positive stability / Stab.Index		107,7° / 109,6	
Freeboard at mast at 4,350		1,332	

RIG			
Forestay Tension Fixed	Spreaders 2		
Inner Stay Adjustable	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler Yes		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12,360	E 4,570	MDT1 0,130	MW 0,220
IG 14,303	J 4,350	MDL1 0,220	GO 0,220
ISP 14,303	SFJ	MDT2 0,130	BD 0,160
BAS 1,953	SPL 4,300	MDL2 0,220	MWT
FSP 0,078	TPS	TL 0,000	MCG



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2016 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,560		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0,0082		
PSA 19,000	PHL 0,150	ST3 0,100	ESL 2,000
PSD 0,030	ST1	ST4	
PHD 0,090	ST2 0,100	ST5	

Certificate

Number **821801**
 ORC Ref **ESP00016195**
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COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,093	0,92	1,69	2,94	3,82	33,36	34,09	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14,86	14,86	14,86	7,97	7,72	98,08		SL · (SFL + 4·SHW) / 6	
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
0,09	0,75	1,49	3,03	4,69	6,16	13,60	41,88					

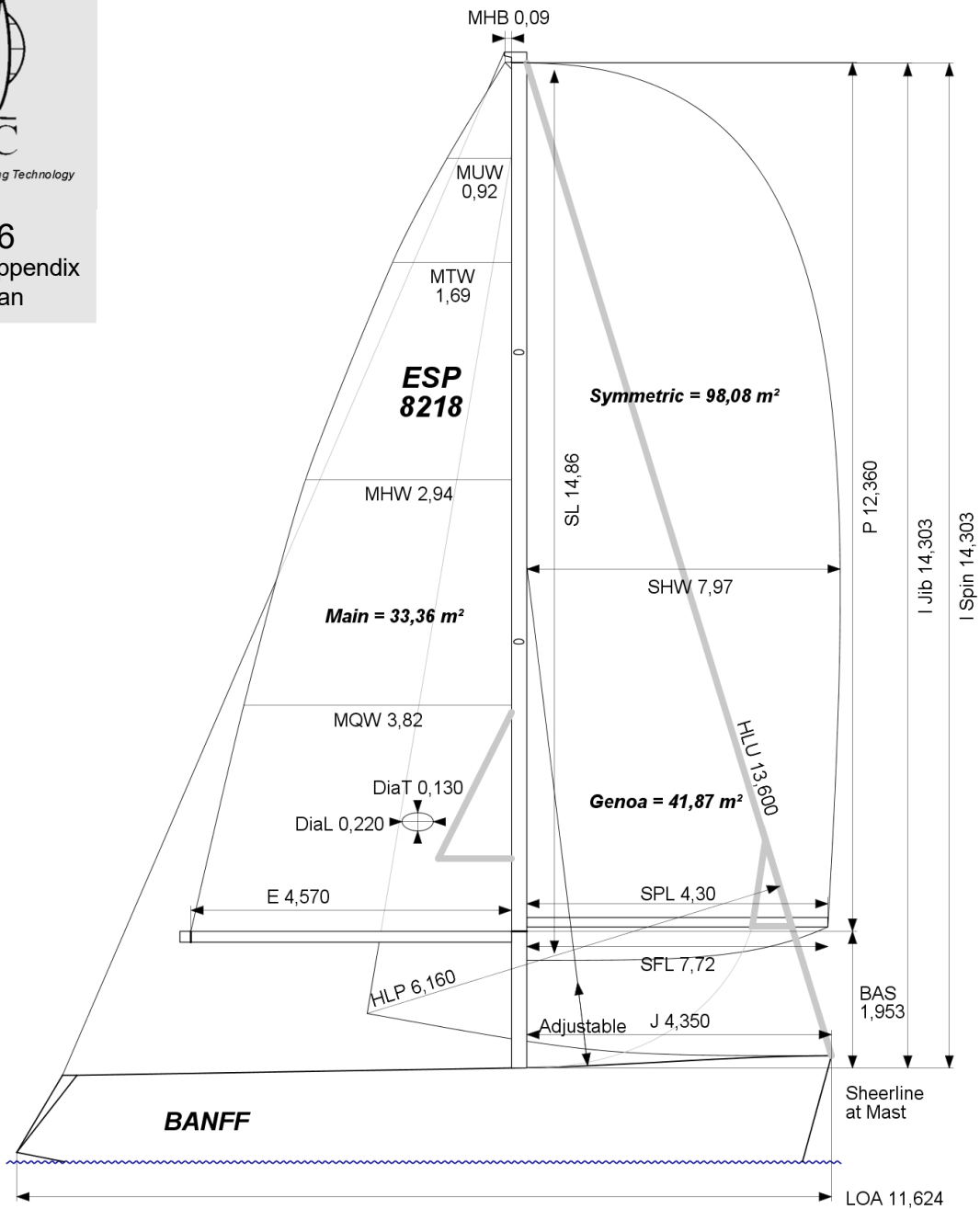
MEASUREMENT INVENTORY				
Measurer FRANCISCO GIL				
Date 14/02/2016				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight Description		

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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2016
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,093	0,92	1,69	2,94	3,82	33,36					

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,09	0,75	1,49	3,03	4,69	6,16	13,60	142%	41,88							

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	14,86	14,86	14,86	7,97	7,72	98,08					

ASYMMETRIC SPINNAKERS

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