

| |
|--|
| BOAT |
| Name BANFF Sail Nr ESP-8218 |

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|--------------|
| GPH |
| 660,0 |

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|--|
| 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 |
| IMSL 10,707m VCGD 0,232m Sink 22,93kg/mm |
| RL 7,198m VCGM 0,307m WS 30,73m² |
| LSMO 10,710m Displacement/Length ratio 6,2988 |



World Leader in Rating Technology

2017
ORC International
Certificate

| |
|---|
| GENERAL |
| Class OCEANIS 393 |
| Designer BERRET-RACOUPEAU |
| Builder BENETEAU |
| Series 01/2001 |
| Age 04/2006 |
| Age Allowance 0,487% |
| Offset File OC393TS1.off - 04/03/2010 17:00:50 |
| Measurement by JJBELTRAN - 14/10/2010 |

Rating Office
R.F.E.V.
Luis de Salazar,9
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| | | | | | | |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| SCORING OPTIONS | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time On Distance | 640,1 | | | 721,7 | | |
| Time On Time | 0,9373 | | | 0,9353 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 776,9 | 579,3 | 508,1 | 1016,9 | 730,4 | 616,3 |
| Time on Time | 0,8688 | 1,1652 | 1,3285 | 0,6638 | 0,9241 | 1,0952 |

| | | | | | | | |
|------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| TIME ALLOWANCES | | | | | | | |
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1188,2 | 972,5 | 859,5 | 787,0 | 751,2 | 734,0 | 725,8 |
| 52° | 757,4 | 630,6 | 556,5 | 516,0 | 501,0 | 494,3 | 490,2 |
| 60° | 703,4 | 590,2 | 524,2 | 494,4 | 482,1 | 476,8 | 473,0 |
| 75° | 659,3 | 554,9 | 502,0 | 478,8 | 465,3 | 456,2 | 449,0 |
| 90° | 658,1 | 553,8 | 499,5 | 476,0 | 461,0 | 448,3 | 427,6 |
| 110° | 683,3 | 558,2 | 494,1 | 466,8 | 448,2 | 436,6 | 419,4 |
| 120° | 703,4 | 573,4 | 501,7 | 471,3 | 451,0 | 430,9 | 403,6 |
| 135° | 777,2 | 627,6 | 534,6 | 488,2 | 464,8 | 445,7 | 406,5 |
| 150° | 927,0 | 724,2 | 606,7 | 531,0 | 488,6 | 466,5 | 430,4 |
| Run VMG | 1070,4 | 836,2 | 700,4 | 608,7 | 548,4 | 502,9 | 457,9 |

Certificate
Number **821801**
ORC Ref **ESP00021089**
Issued On **30/01/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

| | | | | | | | |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Selected Courses | | | | | | | |
| Windward / Leeward | 1129,3 | 904,3 | 780,0 | 697,9 | 649,8 | 618,5 | 591,8 |
| Circular Random | 926,7 | 740,8 | 639,2 | 579,3 | 542,5 | 519,2 | 493,0 |
| Ocean for PCS | 1144,7 | 874,6 | 720,9 | 626,2 | 564,9 | 522,9 | 467,2 |
| Non Spinnaker | 978,4 | 777,5 | 666,7 | 600,5 | 559,2 | 532,6 | 501,8 |

Crew Weight

| | |
|----------------|--------------|
| Declared | 540kg |
| Default* | 759kg |
| Non Manual Pwr | No |

Special Scoring

| | | |
|--------------|--------------|---------------|
| | ToD | ToT |
| Double H.GPH | 663,2 | 0,9047 |
| Double H.OSN | 644,5 | 0,9310 |
| Non Spin GPH | 689,0 | 0,8708 |
| Non Spin OSN | 667,3 | 0,8991 |

Sails Limitations

| | | | |
|-----------|---|------------|---|
| Headsails | 1 | Spinnakers | 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 | 45,5° | 43,8° | 43,6° | 43,9° | 42,8° | 42,1° | 41,9° |
| Beat VMG | 3,03 | 3,70 | 4,19 | 4,57 | 4,79 | 4,90 | 4,96 |
| 52° | 4,75 | 5,71 | 6,47 | 6,98 | 7,19 | 7,28 | 7,34 |
| 60° | 5,12 | 6,10 | 6,87 | 7,28 | 7,47 | 7,55 | 7,61 |
| 75° | 5,46 | 6,49 | 7,17 | 7,52 | 7,74 | 7,89 | 8,02 |
| 90° | 5,47 | 6,50 | 7,21 | 7,56 | 7,81 | 8,03 | 8,42 |
| 110° | 5,27 | 6,45 | 7,29 | 7,71 | 8,03 | 8,25 | 8,58 |
| 120° | 5,12 | 6,28 | 7,18 | 7,64 | 7,98 | 8,35 | 8,92 |
| 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 | 146,3° | 149,9° | 150,7° | 153,8° | 164,2° | 180,0° | 180,0° |

Class Division Length
CDL = **8,954**

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 | Data in meters/kilograms |

| | |
|--------------------------------|----------------------------|
| 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 |
| IG 14,303 | J 4,350 |
| ISP 14,303 | SFJ |
| BAS 1,953 | SPL 4,300 |
| FSP 0,078 | TPS |
| MDT1 0,130 | MW 0,220 |
| MDL1 0,220 | GO 0,220 |
| MDT2 0,130 | BD 0,160 |
| MDL2 0,220 | MWT |
| TL 0,000 | MCG |

| | | | |
|--|------------------|-----------------------|--|
| 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 70,0 | PD1 459,7 | WD 11,870 | |
| W2 70,0 | PD2 461,0 | GSA 1,0 | |
| W3 70,0 | PD3 460,1 | RSA 1,0 | |
| W4 70,0 | 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 | | 167,4kg·m | |
| Limit of positive stability / Stab.Index | | 107,7° / 109,6 | |
| Freeboard at mast at 4,350 | | 1,332 | |



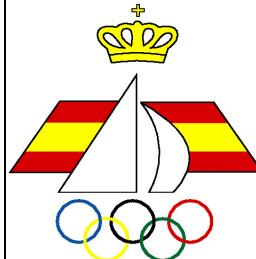
World Leader in Rating Technology

2017

IMS Measurement Certificate

Certificate

Number **821801**
 ORC Ref **ESP00021089**
 Issued On **30/01/2017**
 VPP Ver. **2017 1.00**
 Valid until **31/12/2017**



| | |
|-----------------------------|--|
| 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 | |

| | |
|-----------------|--|
| 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 | 98,08 | | SL · (SFL + 4·SHW) / 6 | |
| | 14,86 | 14,86 | 14,86 | 7,97 | 7,72 | | | | |
| 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 |
| 0,68 | 1,34 | 2,75 | 4,41 | 6,12 | | 43,58 | | | | | Unknow | |

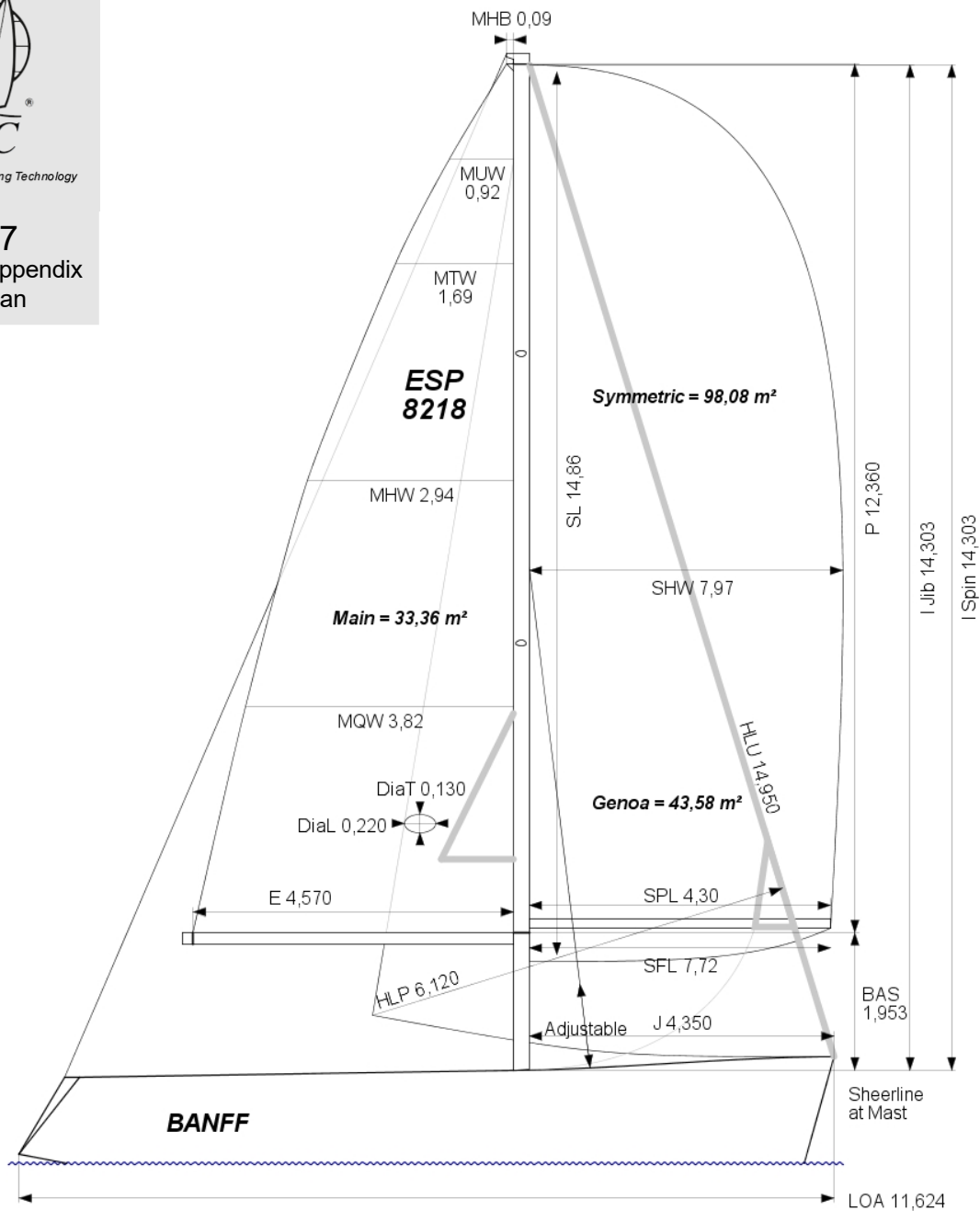
| | | | | |
|-------------------------------|-------------|---------------------------|-----------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer FRANCISCO GIL | | | | |
| Date 14/02/2016 | | | | |
| Comment | | | | |
| <i>Id</i> | <i>Item</i> | <i>Weight</i> | <i>Distance</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> |



World Leader in Rating Technology

2017
Certificate Appendix
Sail Plan



| SAILS INVENTORY | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|------|------|-------|----------|-----------|-------------|-------------|----------|----------|-----------|-------------|----------|---------|--|
| MAINSAIL (1) | | | | | | | | | | | | | | | | | |
| 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 (1) | | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment | |
| 001 | | 0,68 | 1,34 | 2,75 | 4,41 | 6,12 | | 141% | 43,58 | | | | | | | Unknow | |
| SYMMETRIC SPINNAKERS (1) | | | | | | | | | | | | | | | | | |
| 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 (0) | | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| | | | | | | | | | | | | | | | | | |