

| | | |
|--|----------------------------|--|
| BOAT Name COMETA A DOS Sail Nr ESP-8028_R | GPH 623,9 | HULL Length Overall 11,257m Maximum Beam 3,596m Displacement 6.730kg Draft 2,041m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,209% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension |
| GENERAL Class SALONA 37 LK Designer J&J DESIGN Builder AD BOATS Series 01/2005 Age 01/2007 Age Allowance 0,455% Offset File salona37-2lk.OFF - 08/09/2009 Measurement by - 14/12/2013 | | IMSLS 10,447m VCGD 0,267m Sink 21,39kg/mm RL 8,013m VCGM 0,147m WS 28,11m² LSM0 10,463m Displacement/Length ratio 5,8755 |



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2019
ORC International
Certificate

Rating Office
R.F.E.V.
c/Luis de Salazar,9
28002 Madrid
crucero@rfev.es



| SCORING OPTIONS | | | | | | |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 608,4 | | | 682,1 | | |
| Time on Time | 0,9862 | | | 0,9896 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 706,8 | 554,1 | 502,3 | 912,3 | 685,5 | 602,7 |
| Time on Time | 0,9550 | 1,2182 | 1,3437 | 0,7399 | 0,9847 | 1,1200 |

| TIME ALLOWANCES | | | | | | | |
|------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1035,5 | 864,0 | 779,5 | 745,9 | 732,6 | 726,4 | 718,2 |
| 52° | 681,7 | 577,7 | 526,3 | 509,3 | 502,7 | 500,0 | 492,8 |
| 60° | 646,7 | 550,3 | 507,7 | 492,2 | 486,4 | 483,8 | 478,0 |
| 75° | 619,4 | 530,8 | 494,1 | 477,7 | 468,3 | 463,6 | 460,5 |
| 90° | 623,6 | 524,4 | 489,0 | 472,4 | 458,8 | 447,7 | 433,8 |
| 110° | 621,2 | 518,1 | 479,0 | 458,2 | 445,1 | 434,9 | 419,9 |
| 120° | 640,4 | 531,1 | 484,4 | 460,8 | 439,8 | 420,7 | 400,0 |
| 135° | 712,2 | 581,6 | 508,5 | 476,0 | 454,2 | 432,3 | 390,6 |
| 150° | 843,7 | 671,6 | 569,5 | 506,9 | 476,5 | 455,6 | 414,1 |
| Run VMG | 974,2 | 775,5 | 657,0 | 578,3 | 524,1 | 487,0 | 444,9 |

Certificate
Number **8028R1**
ORC Ref **ESP00003028**
Issued On **19/02/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **734kg**
Maximum **170kg**
Minimum* **85kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

| | | |
|--------------|--------------|---------------|
| | ToD | ToT |
| Double H.GPH | 623,9 | 0,9617 |
| Double H.OSN | 608,4 | 0,9862 |
| Non Spin GPH | 654,7 | 0,9165 |
| Non Spin OSN | 637,2 | 0,9417 |

| Selected Courses | | | | | | | |
|-------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 1004,9 | 819,7 | 718,2 | 662,1 | 628,3 | 606,7 | 581,5 |
| Circular Random | 851,5 | 690,3 | 605,4 | 557,4 | 528,9 | 510,7 | 487,9 |
| Coastal / Long Distance | 1001,8 | 769,7 | 646,3 | 576,7 | 539,6 | 510,4 | 464,0 |
| Non Spinnaker | 908,6 | 730,3 | 634,5 | 579,1 | 545,4 | 523,9 | 498,0 |

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 | 42,5° | 40,8° | 40,8° | 40,5° | 40,4° | 40,1° | 40,6° |
| Beat VMG | 3,48 | 4,17 | 4,62 | 4,83 | 4,91 | 4,96 | 5,01 |
| 52° | 5,28 | 6,23 | 6,84 | 7,07 | 7,16 | 7,20 | 7,31 |
| 60° | 5,57 | 6,54 | 7,09 | 7,31 | 7,40 | 7,44 | 7,53 |
| 75° | 5,81 | 6,78 | 7,29 | 7,54 | 7,69 | 7,76 | 7,82 |
| 90° | 5,77 | 6,87 | 7,36 | 7,62 | 7,85 | 8,04 | 8,30 |
| 110° | 5,80 | 6,95 | 7,52 | 7,86 | 8,09 | 8,28 | 8,57 |
| 120° | 5,62 | 6,78 | 7,43 | 7,81 | 8,18 | 8,56 | 9,00 |
| 135° | 5,05 | 6,19 | 7,08 | 7,56 | 7,93 | 8,33 | 9,22 |
| 150° | 4,27 | 5,36 | 6,32 | 7,10 | 7,56 | 7,90 | 8,69 |
| Run VMG | 3,70 | 4,64 | 5,48 | 6,23 | 6,87 | 7,39 | 8,09 |
| Gybe Angles | 144,7° | 149,6° | 151,6° | 156,4° | 173,8° | 180,0° | 180,0° |

Class Division Length
CDL = **9,231**

Storm Sails Areas
Heavy Weather Jib **30,99**
Storm Jib (JL=9,85) **11,48**
Storm Trysail **13,52**

Owner

| | | |
|-------------|--------------|------------------|
| BOAT | | |
| Name | COMETA A DOS | Sail Nr |
| File | E8028_R | Data in |
| | | meters/kilograms |

| | | |
|--|-------------|----------------|
| INCLINING TEST AND FREEBOARDS | | |
| Inclining Test Current Inclining | | |
| Flotation date | | 14/12/2013 |
| | | SG 1,0300 |
| FFM | 1,380 | FF 1,376 |
| FAM | 1,083 | FA 1,085 |
| | | SFFP 0,300 |
| | | SAFP 10,460 |
| W1 | 80,6 | PD1 540,1 |
| W2 | 80,6 | PD2 537,8 |
| W3 | 80,6 | PD3 533,4 |
| W4 | 80,6 | PD4 527,3 |
| | | WD 12,030 |
| | | GSA 1,0 |
| | | RSA 1,0 |
| | | PLM 9000,0 |
| LCF from stem on CL / on sheer | | 6,300 / 6,541 |
| Maximum beam station from stem | | 7,303 |
| | RM Measured | 142,8kg-m |
| | RM Default | 158,1kg-m |
| Limit of positive stability / Stab.Index | | 111,1° / 114,6 |
| Freeboard at mast at 4,490 | | 1,187 |



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IMS Measurement
Certificate

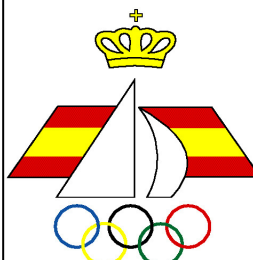
| | | |
|----------------------|-------------------|------------------|
| RIG | | |
| Forestay Tension | Aft | Spreaders |
| Inner Stay | Adjustable | Runners |
| Carbon Mast | No | Jumper Struts |
| Taper Hollows | No | Jib Furler |
| Fiber Rigging | No | Main Furler |
| Lenticular Rigging | No | Without Backstay |
| Articulated Bowsprit | No | |
| P | 14,300 | E |
| IG | 15,150 | J |
| ISP | 15,230 | SFJ |
| BAS | 1,690 | SPL |
| FSP | 0,074 | TPS |
| MDT1 | 0,110 | MW |
| MDL1 | 0,200 | GO |
| MDT2 | 0,110 | BD |
| MDL2 | 0,165 | MWT |
| TL | 0,760 | MCG |

| | | |
|-----------------------------|--|--|
| MIZZEN RIG AND SAILS | | |
| N/A | | |

| | | |
|------------------|-------------------------|--------|
| PROPELLER | | |
| Installation | Strut | PRD |
| Type | Folding 2 blades | PBW |
| Twin Screw | No | PIPA |
| ST1 | 0,050 | ST3 |
| ST2 | 0,180 | ST4 |
| | | ST5 |
| | | EDL |
| | | 0,380 |
| | | 0,100 |
| | | 0,0036 |
| | | 0,300 |
| | | 2,095 |

Certificate

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ORC Ref **ESP00003028**
Issued On **19/02/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**



| | | |
|---|--|--|
| COMMENTS | | |
| solo valido regatas trip. red. 300 kg lastre sentina. | | |

| | | |
|------------------------|--|--|
| MOVABLE BALLAST | | |
| N/A | | |

| | | |
|--------------------|--|--|
| CENTERBOARD | | |
| N/A | | |

| | | | | | | | | | |
|------------------------------|-------|-------|-------|------|------|-------|----------|---|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0,180 | 1,13 | 2,00 | 3,46 | 4,52 | 45,72 | 46,77 | P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | | | SL · (SFL + 4·SHW) / 6 | |
| | 14,95 | 14,95 | 14,95 | 7,54 | 7,12 | 92,89 | | | |
| Asymmetric | SLU | SLE | SL | SHW | SFL | | | AS · (SFL + 4·SHW) / 6 | |
| | 15,43 | 14,05 | 14,74 | 7,00 | 8,91 | 90,68 | | | |

| | | | | | | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------------|-----------------|----------------|
| 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 | 0,58 | 1,09 | 2,16 | 3,24 | 4,36 | 14,71 | 32,04 | Y | | 19/02/2016 | Unknow | enrollador |

| | | | | |
|------------------------------|-------------|---------------|-----------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer | ESP 498 | | | |
| Date | 14/12/2013 | | | |
| 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>Distance</i> | <i>Description</i> |

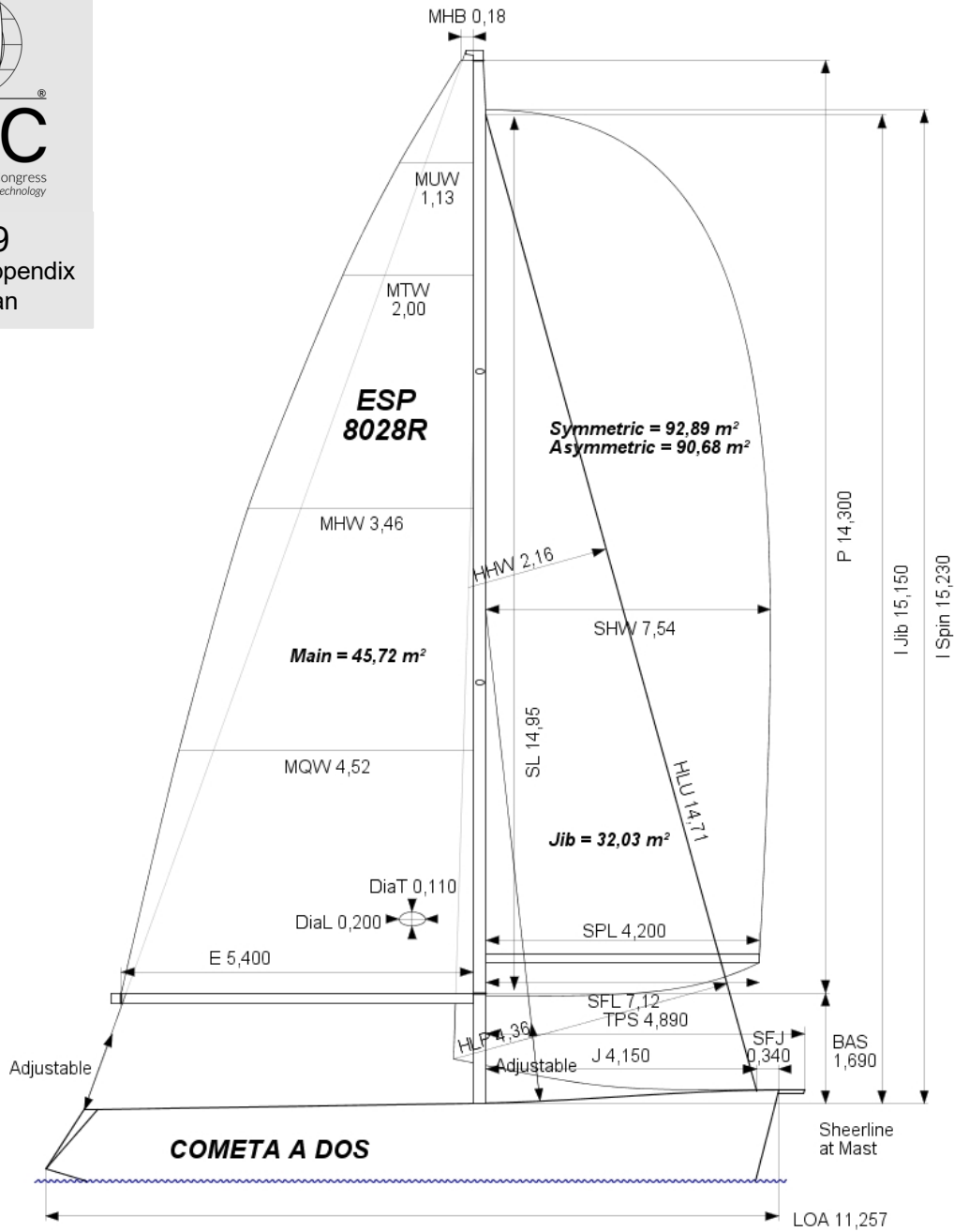
| | | | | | | | | |
|------------------------------|-------------|-----------------|------------------|------------------------|--------------|------------|---------------|--------------------|
| MEASUREMENT INVENTORY | | | | | | | | |
| <i>Id</i> | <i>Item</i> | <i>Tank Use</i> | <i>Tank Type</i> | <i>Capcty</i> | <i>Dist.</i> | <i>VCG</i> | <i>Condtn</i> | <i>Description</i> |
| 1 | Tank | AGUA | PVC | | 8,65 | | | 0,0 |
| 3 | Tank | GASOIL | PVC | | 8,85 | | | 25,0 |
| <i>Id</i> | <i>Item</i> | <i>Weight</i> | <i>Distance</i> | <i>VCG Description</i> | | | | |
| 1 | Ballast | 300,0 | 4,65 | plomos en sentina | | | | |
| 1 | Battery | | 5,65 | BATERIA 170 AH. | | | | |
| 2 | Battery | | 5,65 | BATERIA 100 AH. | | | | |



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|------|------|------|------|------|-------|----------|-----------|-------------|----------|---------|
| 1 | 0,18 | 1,13 | 2,00 | 3,46 | 4,52 | 45,73 | | | | Kevlar | RI |

HEADSAILS (1)

| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|------------|-------------|----------|------------|
| 4 | 0,09 | 0,58 | 1,09 | 2,16 | 3,24 | 4,36 | 14,71 | 105% | 32,04 | Y | | | 19/02/2016 | QUANTUM | Unknown | enrollador |

SYMMETRIC SPINNAKERS (1)

| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|----------|-----------|-------------|----------|---------|
| 1 | 14,95 | 14,95 | 14,95 | 7,54 | 7,12 | 92,89 | | | | Nylon | RI |

ASYMMETRIC SPINNAKERS (1)

| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|------|----------|-----------|-------------|----------|---------|
| 1 | 15,43 | 14,05 | 14,74 | 7,00 | 8,91 | 90,68 | asym | | | | Unknown | RI |