

| | | |
|---|----------------------------|--|
| BOAT Name CODE ZERO Sail Nr GRE-9442 | GPH 561.8 | HULL Length Overall 12.450m Maximum Beam 3.216m Displacement 6,453kg Draft 2.554m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder Yes Crew Arm Extension |
| GENERAL Class GRAND SOLEIL 42 R Designer BOTIN-CARKEEK Builder DEL PARDO Series 04/2003 Age 06/2003 Age Allowance 0.487% Offset File GS42R.OFF - 28/02/2008 17:15:06 Measurement by - 02/04/2010 | | IMSL 10.992m VCGD -0.174m Sink 23.20kg/mm RL 10.693m VCGM -0.210m WS 29.89m² LSM0 10.529m Displacement/Length ratio 5.5284 |



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Ιστιοπλοϊκής Ομοσπονδίας



| SCORING OPTIONS | | | | | | |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 546.6 | | | 611.0 | | |
| Time on Time | 1.0976 | | | 1.1048 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 640.5 | 498.6 | 445.1 | 829.5 | 614.1 | 535.0 |
| Time on Time | 1.0539 | 1.3539 | 1.5166 | 0.8137 | 1.0991 | 1.2617 |

| TIME ALLOWANCES | | | | | | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 919.5 | 751.4 | 671.3 | 645.7 | 634.6 | 622.7 | 615.7 |
| 52° | 605.1 | 504.1 | 468.7 | 458.8 | 454.2 | 450.8 | 443.6 |
| 60° | 572.5 | 486.4 | 457.2 | 446.7 | 441.5 | 438.5 | 429.2 |
| 75° | 547.7 | 475.6 | 448.0 | 431.4 | 421.9 | 416.3 | 408.4 |
| 90° | 552.8 | 477.2 | 447.8 | 427.1 | 408.7 | 395.2 | 382.8 |
| 110° | 574.7 | 477.6 | 440.7 | 415.3 | 399.3 | 385.6 | 364.5 |
| 120° | 593.9 | 488.3 | 446.9 | 418.8 | 391.7 | 370.6 | 345.0 |
| 135° | 665.5 | 535.2 | 469.7 | 439.1 | 412.5 | 386.4 | 332.3 |
| 150° | 794.2 | 632.5 | 531.5 | 471.7 | 442.3 | 417.4 | 368.9 |
| Run VMG | 917.0 | 730.3 | 613.7 | 538.9 | 491.5 | 456.1 | 407.9 |

Certificate
Number **00372**
ORC Ref **03420000NKH**
Issued On **02/08/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight
Default **741kg**
Maximum **770kg**
Minimum* **578kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **589.2 1.0183**
Non Spin OSN **573.5 1.0461**

| Selected Courses | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 918.3 | 740.9 | 642.5 | 592.3 | 563.1 | 539.4 | 511.8 |
| Circular Random | 771.5 | 623.6 | 545.2 | 500.1 | 472.2 | 453.3 | 427.9 |
| Coastal / Long Distance | 918.1 | 696.9 | 580.9 | 517.9 | 483.3 | 453.9 | 409.4 |
| Non Spinnaker | 820.8 | 658.4 | 570.9 | 519.9 | 488.2 | 466.9 | 439.1 |

Sails Limitations
Headsails **6** Spinnakers **4**

| 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 | 42.8° | 41.3° | 39.2° | 38.3° | 37.9° | 37.3° | 37.5° |
| Beat VMG | 3.92 | 4.79 | 5.36 | 5.58 | 5.67 | 5.78 | 5.85 |
| 52° | 5.95 | 7.14 | 7.68 | 7.85 | 7.93 | 7.99 | 8.12 |
| 60° | 6.29 | 7.40 | 7.87 | 8.06 | 8.15 | 8.21 | 8.39 |
| 75° | 6.57 | 7.57 | 8.04 | 8.35 | 8.53 | 8.65 | 8.82 |
| 90° | 6.51 | 7.54 | 8.04 | 8.43 | 8.81 | 9.11 | 9.40 |
| 110° | 6.26 | 7.54 | 8.17 | 8.67 | 9.02 | 9.34 | 9.88 |
| 120° | 6.06 | 7.37 | 8.05 | 8.60 | 9.19 | 9.71 | 10.43 |
| 135° | 5.41 | 6.73 | 7.66 | 8.20 | 8.73 | 9.32 | 10.83 |
| 150° | 4.53 | 5.69 | 6.77 | 7.63 | 8.14 | 8.63 | 9.76 |
| Run VMG | 3.93 | 4.93 | 5.87 | 6.68 | 7.32 | 7.89 | 8.83 |
| Gybe Angles | 141.5° | 146.0° | 148.5° | 155.5° | 168.0° | 180.0° | 180.0° |

Class Division Length
CDL = **10.825**

Storm Sails Areas
Heavy Weather Jib **32.70**
Storm Jib (JL=10.12) **12.12**
Storm Trysail **17.69**

Owner

| | |
|--------------------------------|--|
| BOAT | |
| Name CODE ZERO | Sail Nr GRE-9442 |
| File GR9442 | Data in meters/kilograms |
| RIG | |
| Forestay Tension Aft | Spreaders 2 |
| Inner Stay None Fitted | Runners/Checkstays 0 |
| Carbon Mast Yes | Jib Furler No |
| Fiber Rigging No | Main Furler No |
| Non-Circular Rigging No | |
| Articulated Bowsprit No | |
| P 16.430 | E 6.150 MDT1 0.124 MW 0.237 |
| IG 15.467 | J 4.540 MDL1 0.242 GO 0.265 |
| ISP 15.600 | SFJ 0.120 MDT2 0.084 BD 0.262 |
| BAS 1.686 | SPL 4.525 MDL2 0.180 MWT 205.00 |
| FSD 0.034 | TPS TL 2.610 MCG 5.405 |

| | | |
|--|------------------|-----------------------|
| INCLINING TEST AND FREEBOARDS | | |
| Inclining Test Current Inclining | | |
| Flotation date 09/07/2017 | SG 1.0255 | |
| FFM 1.390 | FF 1.390 | SFFP 0.100 |
| FAM 1.073 | FA 1.074 | SAFP 11.988 |
| W1 128.8 | PD1 556.8 | WD 11.435 |
| W2 128.8 | PD2 555.7 | GSA 1.0 |
| W3 128.8 | PD3 557.3 | RSA 1.0 |
| W4 128.8 | PD4 556.0 | PLM 9000.0 |
| LCF from stem on CL / on sheer | | 6.760 / 6.938 |
| Maximum beam station from stem | | 7.940 |
| RM Measured | | 208.4kg-m |
| RM Default | | 192.0kg-m |
| Limit of positive stability / Stab.Index | | 130.6° / 137.3 |
| Freeboard at mast at 4.660 | | 1.221 |



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

| | | |
|------------------------------|--------------------|------------------|
| PROPELLER | | |
| Installation Strut | PRD | |
| Type Folding 2 blades | PBW | |
| Twin Screw No | PIPA 0.0035 | |
| ST1 0.041 | ST3 | ST5 0.275 |
| ST2 | ST4 0.112 | EDL 0.980 |

Certificate

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Issued On **02/08/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**



| | |
|---|--|
| COMMENTS | |
| Solid Keel with Tunnels. ex "ARISTOFANI R", ex "BOOKER", ex "SAIOLA" FRA-9442 | |

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

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

| | | | | | | | | | |
|------------------------------|------------|------------|------------|------------|------------|-------------|-----------------|---|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0.19 | 1.27 | 2.27 | 3.88 | 5.05 | 59.11 | 60.36 | P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | | | | |
| | 15.30 | 15.30 | 15.30 | 8.74 | 8.25 | 110.19 | | 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 | Flying | Meas.Date | Material | Comment |
| 0.10 | 0.72 | 1.36 | 2.54 | 3.68 | 4.82 | 15.63 | 39.06 | Y | No | 02/08/2020 | Carbon | Light 3Di |
| 0.09 | 0.67 | 1.29 | 2.50 | 3.67 | 4.82 | 15.65 | 38.65 | Y | No | 21/05/2013 | Kevlar | JIB TOP |
| 0.10 | 0.67 | 1.29 | 2.45 | 3.63 | 4.77 | 15.50 | 37.85 | Y | No | 02/08/2020 | Carbon | Medium 3Di |
| 0.08 | 0.59 | 1.11 | 2.23 | 3.44 | 4.63 | 15.49 | 35.42 | N | Inner | 13/07/2011 | Unknow | WINDSEEKER |
| 0.09 | 0.64 | 1.22 | 2.32 | 3.43 | 4.63 | 15.14 | 35.27 | Y | No | 02/08/2020 | Carbon | Heavy 3Di |
| 0.10 | 0.53 | 1.04 | 2.11 | 3.24 | 4.39 | 14.05 | 30.32 | Y | No | 02/08/2020 | Kevlar | 3.5 |

| | | | | |
|---|-------------|---------------------------|-----------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer GRE-21 | | | | |
| Date 09/07/2017 | | | | |
| Comment MATRESSES & FLOORBOARDS IN THEIR | | | | |
| Internal Ballast total = 1449.9 | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| 1 | Engine | YANMAR | | |
| Id | Item | Weight Description | | |

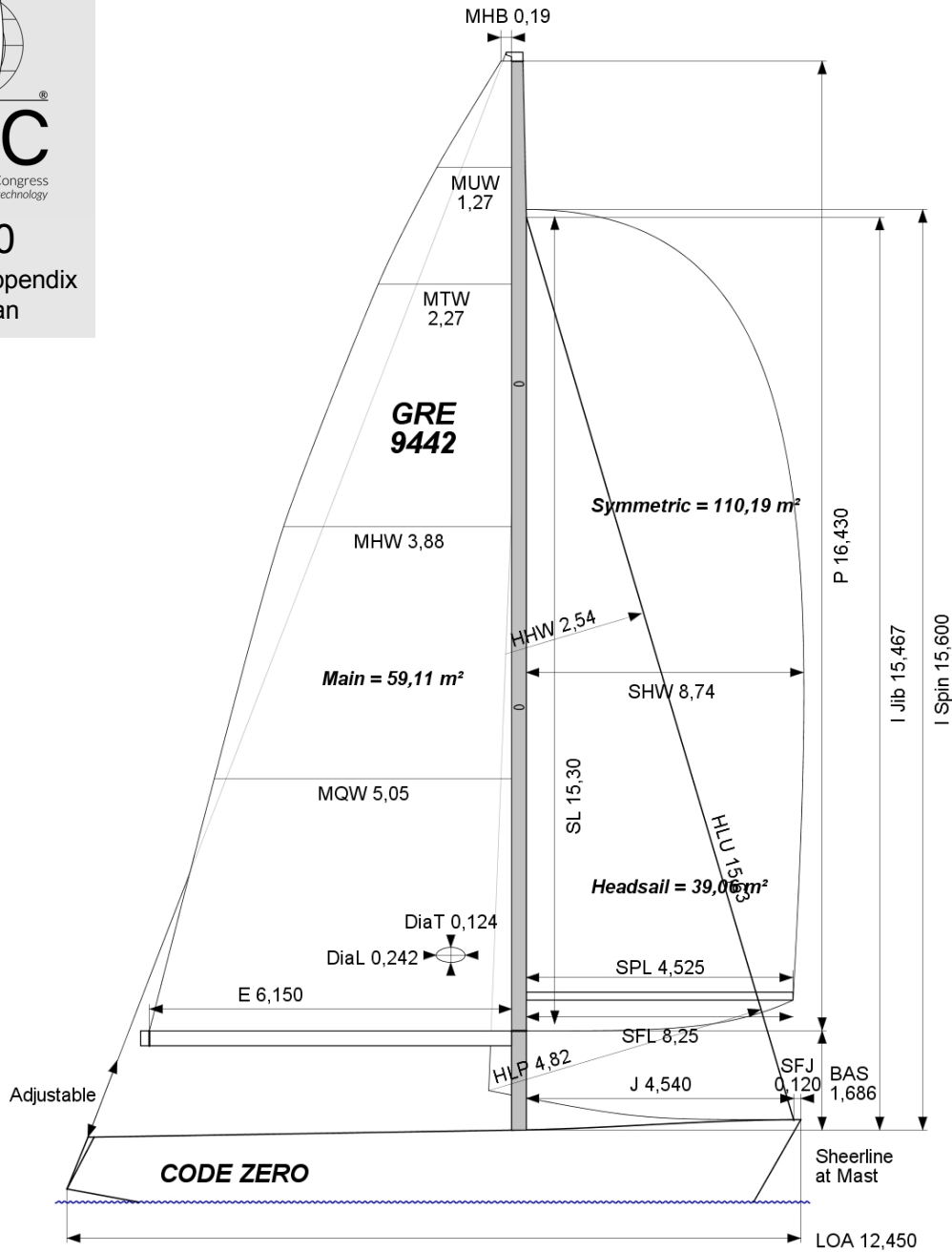
| | | | | | | | |
|------------------------------|-------------|-----------------|------------------|------------------------|--------------|------------|---------------------------|
| MEASUREMENT INVENTORY | | | | | | | |
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn Description |
| 1 | Tank | FUEL | PVC hard | 62.0 | 7.80 | | 40-0 |
| 2 | Tank | WATER | Soft bag | 50.0 | 5.40 | | 0-0 |
| 3 | Tank | WATER | Soft bag | 50.0 | 5.40 | | 0-0 |
| Id | Item | Weight | Distance | VCG Description | | | |
| 1 | Ballast | 117.5 | 6.00 | 58.1 (p) + 59.4 (s) | | | |
| 2 | Ballast | 688.8 | 6.60 | 345.8 (p) + 343.0 (s) | | | |
| 3 | Ballast | 77.7 | 7.20 | 31.6 (p) + 46.1 (s) | | | |
| 4 | Ballast | 565.9 | 7.70 | 283.0 (p) + 282.9 (s) | | | |
| 1 | Battery | 34.0 | 7.10 | 2 x 75Ah | | | |
| 2 | Battery | 14.4 | 7.10 | 1 x 58Ah | | | |



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Sail Plan



SAILS INVENTORY

| MAINSAIL (2) | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|------|------|--------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|------------|
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 1 | 0.19 | 1.27 | 2.27 | 3.88 | 5.05 | 59.11 | | 02/08/2020 | NORTH | Carbon | 3Di | | | | | |
| 2 | 0.15 | 1.27 | 2.18 | 3.68 | 4.74 | 56.70 | | 03/05/2019 | NORTH | Kevlar | 3Di | | | | | |
| HEADSAILS (6) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Flying | Measurer | Meas.Date | Manufacture | Material | Comment |
| 01 | 0.10 | 0.72 | 1.36 | 2.54 | 3.68 | 4.82 | 15.63 | 106% | 39.06 | Y | No | | 02/08/2020 | NORTH | Carbon | Light 3Di |
| 05 | 0.09 | 0.67 | 1.29 | 2.50 | 3.67 | 4.82 | 15.65 | 106% | 38.65 | Y | No | | 21/05/2013 | NORTH | Kevlar | JIB TOP |
| 02 | 0.10 | 0.67 | 1.29 | 2.45 | 3.63 | 4.77 | 15.50 | 105% | 37.85 | Y | No | | 02/08/2020 | NORTH | Carbon | Medium 3Di |
| 06 | 0.08 | 0.59 | 1.11 | 2.23 | 3.44 | 4.63 | 15.49 | 102% | 35.42 | N | Inner | | 13/07/2011 | KAFETZIDA | Unknow | WINDSEEKER |
| 03 | 0.09 | 0.64 | 1.22 | 2.32 | 3.43 | 4.63 | 15.14 | 102% | 35.27 | Y | No | | 02/08/2020 | NORTH | Carbon | Heavy 3Di |
| 04 | 0.10 | 0.53 | 1.04 | 2.11 | 3.24 | 4.39 | 14.05 | 97% | 30.32 | Y | No | | 02/08/2020 | NORTH | Kevlar | 3.5 |
| SYMMETRIC SPINNAKERS (4) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 02 | 15.30 | 15.30 | 15.30 | 8.74 | 8.25 | 110.19 | | 03/05/2019 | NORTH | Nylon | S2 | | | | | |
| 01 | 15.72 | 15.72 | 15.72 | 8.36 | 8.43 | 109.70 | | 01/02/2017 | NORTH | Nylon | S1 | | | | | |
| 04 | 15.35 | 15.37 | 15.36 | 8.60 | 8.40 | 109.57 | | 03/05/2019 | NORTH | Nylon | S1.5 | | | | | |
| 03 | 15.33 | 15.33 | 15.33 | 8.04 | 8.15 | 103.00 | | 01/02/2017 | NORTH | Nylon | S3 | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |