



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας

Certificate
Number **001104**
Issued On **6/6/2018**
ORC Ref **GRE01009933**
VPP Ver. **2018 1.00**
Valid until **28/2/2019**

Crew Weight

| | |
|----------|--------------|
| Default | 660kg |
| Maximum | 660kg |
| Minimum* | 495kg |

*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

| | |
|---------------------------|---------------|
| ToD | ToT |
| Non Spin GPH 732,6 | 0,8190 |
| Non Spin OSN 706,5 | 0,8492 |

Sails Limitations

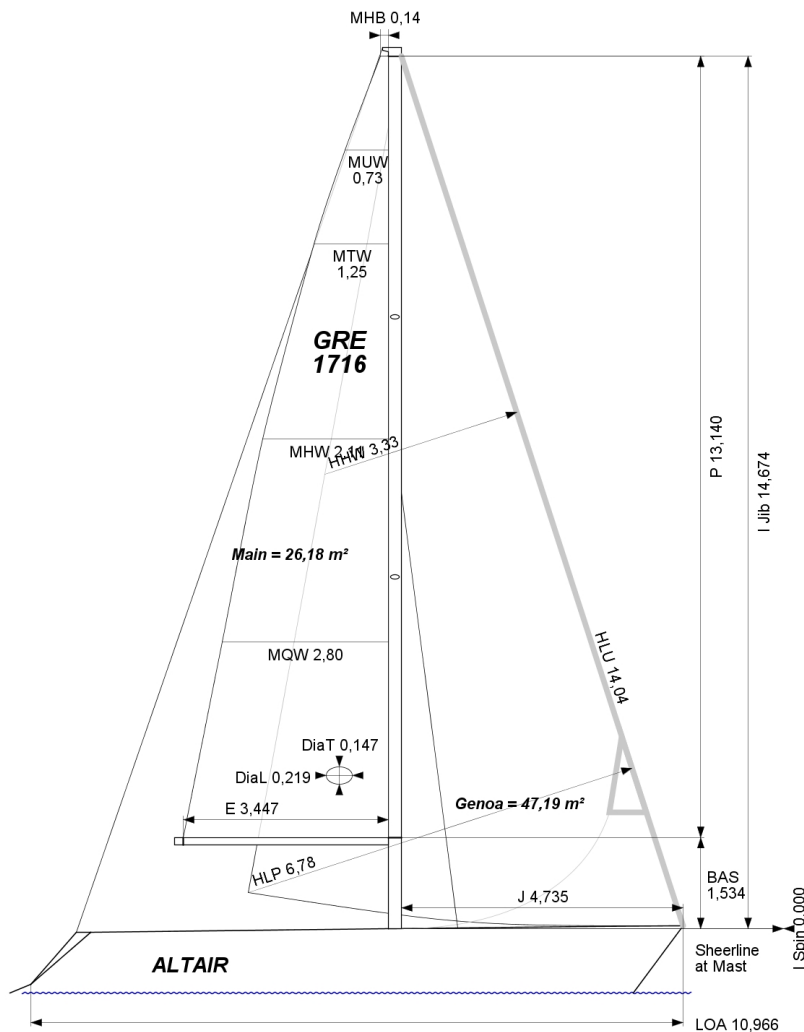
Headsails **1** Spinnakers **0**
Dacron Sails

Spinnaker configuration
Symmetric: **No**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = **8,043**

Stability (Estimated)
Limit Positive Stab.: **117,9°**
Stability Index: **121,1**

Owner



| | | | | | | |
|---|--------------------------------|---|---|---------------------------|---------------|---------------|
| BOAT Name ALTAIR Sail Nr GRE-1716 | | GPH 732,6 | HULL Data File GR1716 LOA 10,966m Offset File G1072.BOF MB 3,840m Displacement 7.930kg Draft 1,988m | | | |
| CLASS Class JOUET 37 Designer TORTAROLO Builder YACHTING FRANCE Series 01/1976 Age Date 01/1978 Age Allowance 0,487% | | IMS Division Cruiser/Racer Dynamic All. 0,604% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No | | | | |
| COMMENTS Builder's displacement. | | IMSL 9,284m VCGD -0,098m Sink 18,70kg/mm RL 6,801m VCGM -0,029m WS 27,70m² LSM0 9,704m Displacement/Length ratio 8,6780 | | | | |
| PROPELLER Installation Shaft exposed PRD 0,400 Type Solid 2 blades PIPA 0,0167 | | Water Ballast 0 Trim Tab No BLR Index 0,0000 | | | | |
| SCORING OPTIONS | | CENTERBOARD N/A | | | | |
| Time on Distance | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| | 706,5 | | | 786,3 | | |
| Time on Time | 0,8492 | | | 0,8584 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 875,7 | 641,0 | 550,0 | 1138,7 | 797,8 | 656,0 |
| Time on Time | 0,7708 | 1,0531 | 1,2272 | 0,5928 | 0,8461 | 1,0290 |

| | |
|--------------------|---------------------------------|
| BOAT | |
| Name ALTAIR | Sail Nr GRE-1716 |
| File GR1716 | Data in meters/kilograms |

| | | | |
|--|----|----------------|------------|
| INCLINING TEST AND FREEBOARDS | | | |
| Inclining Test Club Estimated VCG | | | |
| Flotation date 15/03/2015 | | SG | |
| FFM | FF | 1,125 | SFFP 0,726 |
| FAM | FA | 1,022 | SAFP 9,955 |
| LCF from stem on CL / on sheer | | 5,766 / 6,008 | |
| Maximum beam station from stem | | 6,525 | |
| RM Measured | | 127,5kg·m | |
| RM Default | | 123,8kg·m | |
| Limit of positive stability / Stab.Index | | 117,9° / 121,1 | |
| Freeboard at mast at 4,735 | | 1,081 | |

| | | | |
|--------------------------------|----------------------------|-------------------|-----|
| RIG | | | |
| Forestay Tension Fixed | Spreaders 2 | | |
| Inner Stay Fixed | 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 13,140 | E 3,447 | MDT1 0,147 | MW |
| IG 14,674 | J 4,735 | MDL1 0,219 | GO |
| ISP | SFJ 0,000 | MDT2 | BD |
| BAS 1,534 | SPL | MDL2 | MWT |
| FSP 0,080 | TPS | TL -3,000 | MCG |



World Leader in Rating Technology

2018

Measurements Datasheet

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

| | | | |
|------------------|-----------------------|------|---------------|
| PROPELLER | | | |
| Installation | Shaft exposed | PRD | 0,400 |
| Type | Solid 2 blades | PBW | |
| Twin Screw | No | PIPA | 0,0167 |
| PSA | PHL | ST3 | ESL |
| PSD | ST1 | ST4 | |
| PHD | ST2 | ST5 | |

Certificate

Number **001104**

ORC Ref **GRE01009933**

Issued On **6/6/2018**

VPP Ver. **2018 1.00**

Valid until **28/2/2019**



| | |
|-------------------------|--|
| COMMENTS | |
| Builder's displacement. | |

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

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

| SAILS INVENTORY | | | | | | | | | | | | | | | | |
|----------------------------------|-------|------|------|------|------|-------|----------|------------|-------------|-------------|----------|----------|------------|-------------|----------|---------------|
| MAINSAIL (1) | | | | | | | | | | | | | | | | |
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 1 | 0,138 | 0,73 | 1,25 | 2,11 | 2,80 | 26,18 | | 15/03/2015 | KAKITSIS | Dacron | | | | | | |
| HEADSAILS (2) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
| 1 | 0,06 | 0,81 | 1,63 | 3,33 | 5,07 | 6,78 | 14,04 | 143% | 47,19 | | | | 08/09/2016 | KAKITSIS | Dacron | |
| 2 | 0,04 | 0,51 | 1,01 | 2,09 | | 4,49 | 13,13 | 95% | 28,75 | | | | 15/03/2015 | KAKITSIS | Dacron | HEAVY WEATHER |
| SYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |



World Leader in Rating Technology

2018

ORC Club Certificate Appendix

| BOAT | |
|-------------------------|----------------------------------|
| Name ALTAIR | Certificate Number 001104 |
| Sail Nr GRE-1716 | Issued On 6/6/2018 |

| TIME ALLOWANCES | | | | | | | |
|-------------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1220,6 | 1006,8 | 890,6 | 809,7 | 765,2 | 745,2 | 734,0 |
| 52° | 794,3 | 669,5 | 589,7 | 547,6 | 529,1 | 519,1 | 512,4 |
| 60° | 750,9 | 635,9 | 562,8 | 531,1 | 515,4 | 505,3 | 496,3 |
| 75° | 719,6 | 609,6 | 545,8 | 518,9 | 503,2 | 491,5 | 474,0 |
| 90° | 727,7 | 616,2 | 547,5 | 518,2 | 500,9 | 486,3 | 463,9 |
| 110° | 799,0 | 659,0 | 571,6 | 528,0 | 505,4 | 488,5 | 458,2 |
| 120° | 852,3 | 696,0 | 601,4 | 541,6 | 513,5 | 495,3 | 463,9 |
| 135° | 976,9 | 771,7 | 662,1 | 584,2 | 537,1 | 512,6 | 480,7 |
| 150° | 1156,6 | 888,1 | 741,9 | 650,9 | 581,8 | 538,2 | 497,4 |
| Run VMG | 1323,9 | 1003,3 | 822,6 | 711,9 | 633,8 | 573,2 | 513,3 |
| Selected Courses | | | | | | | |
| Windward / Leeward | 1272,3 | 1005,0 | 856,6 | 760,8 | 699,5 | 659,2 | 623,7 |
| Circular Random | 1040,4 | 827,3 | 709,1 | 637,9 | 593,0 | 563,9 | 530,7 |
| Coastal / Long Distance | 1277,4 | 945,8 | 769,6 | 660,1 | 600,5 | 560,2 | 507,3 |
| Non Spinnaker | 1040,4 | 827,3 | 709,1 | 637,9 | 593,0 | 563,9 | 530,7 |

| 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 | 43,8° | 41,8° | 41,4° | 41,9° | 40,9° | 40,4° | 40,0° |
| Beat VMG | 2,95 | 3,58 | 4,04 | 4,45 | 4,70 | 4,83 | 4,90 |
| 52° | 4,53 | 5,38 | 6,11 | 6,57 | 6,80 | 6,93 | 7,03 |
| 60° | 4,79 | 5,66 | 6,40 | 6,78 | 6,99 | 7,12 | 7,25 |
| 75° | 5,00 | 5,91 | 6,60 | 6,94 | 7,15 | 7,32 | 7,60 |
| 90° | 4,95 | 5,84 | 6,58 | 6,95 | 7,19 | 7,40 | 7,76 |
| 110° | 4,51 | 5,46 | 6,30 | 6,82 | 7,12 | 7,37 | 7,86 |
| 120° | 4,22 | 5,17 | 5,99 | 6,65 | 7,01 | 7,27 | 7,76 |
| 135° | 3,69 | 4,67 | 5,44 | 6,16 | 6,70 | 7,02 | 7,49 |
| 150° | 3,11 | 4,05 | 4,85 | 5,53 | 6,19 | 6,69 | 7,24 |
| Run VMG | 2,72 | 3,59 | 4,38 | 5,06 | 5,68 | 6,28 | 7,01 |
| Gybe Angles | 167,6° | 168,2° | 169,3° | 170,4° | 170,4° | 171,5° | 175,4° |