

| | | |
|---|----------------------------|---|
| BOAT Name REVAL CAFE Sail Nr EST 703 | GPH 607,7 | HULL Length Overall 11,462m Maximum Beam 3,578m Displacement 6 331kg Draft 2,046m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,171% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension |
| GENERAL Class Salona 38 ibc Designer Jakopin & Jakopin Builder AD Boats Series 05.2011, CIN HR-ADB38031C313 Age 03.2013 Age Allowance 0,195% Offset File SAL38TK_c.rud.off - 16.04.2017 Measurement by Tetsmann - 08.06.2017 | | IMSL 10,430m VCGD -0,015m Sink 21,07kg/mm RL 8,791m VCGM 0,027m WS 27,94m² LSMO 10,399m Displacement/Length ratio 5,6299 |



2017
ORC International
Certificate

Rating Office
EYU
Regati 1
11911, Tallinn
Estonia

| SCORING OPTIONS | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
|------------------|-------------------------|---------------|---------------|--------------------|---------------|---------------|
| | Time On Distance | 590,3 | | | 660,4 | |
| Time On Time | 1,0164 | | | 1,0221 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 701,3 | 537,2 | 475,1 | 910,6 | 665,2 | 570,5 |
| Time on Time | 0,9625 | 1,2565 | 1,4207 | 0,7413 | 1,0148 | 1,1831 |

| TIME ALLOWANCES | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 1060,0 | 876,8 | 772,0 | 712,2 | 686,7 | 674,1 | 658,5 |
| 52° | 687,5 | 575,6 | 513,9 | 487,7 | 477,8 | 472,9 | 467,6 |
| 60° | 644,7 | 542,2 | 494,9 | 473,9 | 463,4 | 458,2 | 453,9 |
| 75° | 609,4 | 517,9 | 481,7 | 461,9 | 446,4 | 434,9 | 425,8 |
| 90° | 610,2 | 515,1 | 475,4 | 460,4 | 443,4 | 426,3 | 400,7 |
| 110° | 613,8 | 507,2 | 467,3 | 442,5 | 427,2 | 415,5 | 394,8 |
| 120° | 629,6 | 517,5 | 472,8 | 446,9 | 421,0 | 400,7 | 378,5 |
| 135° | 694,3 | 562,5 | 493,7 | 463,6 | 439,7 | 415,2 | 367,4 |
| 150° | 822,1 | 654,8 | 552,3 | 492,9 | 464,9 | 442,7 | 398,2 |
| Run VMG | 949,2 | 756,1 | 637,7 | 561,6 | 512,4 | 477,4 | 433,5 |

Certificate
Number **EST703**
ORC Ref **EST00001403**
Issued On **12.06.2017**
VPP Ver. **2017 1.00**
Valid until **31.12.2017**

Crew Weight
Declared **771kg**
Default* **728kg**
Non Manual Pwr **No**

Special Scoring

| | ToD | ToT |
|--------------|--------------|---------------|
| Double H.GPH | 611,1 | 0,9818 |
| Double H.OSN | 595,2 | 1,0081 |
| Non Spin GPH | 643,0 | 0,9331 |
| Non Spin OSN | 624,2 | 0,9613 |

| Selected Courses | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
|--------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 1004,6 | 816,4 | 704,9 | 636,9 | 599,5 | 575,8 | 546,0 |
| Circular Random | 840,8 | 677,4 | 589,4 | 537,9 | 506,0 | 484,7 | 456,9 |
| Ocean for PCS | 1030,4 | 795,0 | 661,7 | 579,8 | 526,5 | 489,4 | 437,9 |
| Non Spinnaker | 904,0 | 722,3 | 622,9 | 563,8 | 526,7 | 502,0 | 470,4 |

Sails Limitations

| Headsails | Spinnakers |
|-----------|------------|
| 5 | 3 |

| Velocity Prediction in Knots for True Wind Speeds | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat Angles | 43,8° | 42,4° | 42,4° | 41,1° | 39,8° | 39,6° | 39,2° |
| Beat VMG | 3,40 | 4,11 | 4,66 | 5,05 | 5,24 | 5,34 | 5,47 |
| 52° | 5,24 | 6,25 | 7,01 | 7,38 | 7,53 | 7,61 | 7,70 |
| 60° | 5,58 | 6,64 | 7,27 | 7,60 | 7,77 | 7,86 | 7,93 |
| 75° | 5,91 | 6,95 | 7,47 | 7,79 | 8,07 | 8,28 | 8,46 |
| 90° | 5,90 | 6,99 | 7,57 | 7,82 | 8,12 | 8,44 | 8,98 |
| 110° | 5,87 | 7,10 | 7,70 | 8,14 | 8,43 | 8,66 | 9,12 |
| 120° | 5,72 | 6,96 | 7,61 | 8,06 | 8,55 | 8,99 | 9,51 |
| 135° | 5,18 | 6,40 | 7,29 | 7,77 | 8,19 | 8,67 | 9,80 |
| 150° | 4,38 | 5,50 | 6,52 | 7,30 | 7,74 | 8,13 | 9,04 |
| Run VMG | 3,79 | 4,76 | 5,65 | 6,41 | 7,03 | 7,54 | 8,31 |
| Gybe Angles | 140,9° | 148,9° | 149,6° | 156,4° | 172,2° | 180,0° | 180,0° |

Class Division Length
CDL = **9,611**

Storm Sails Areas

| | |
|---------------------|--------------|
| Heavy Weather Jib | 30,74 |
| Storm Jib (JL=9,81) | 11,38 |
| Storm Trysail | 12,72 |

| | |
|------------------------|---------------------------------|
| BOAT | |
| Name REVAL CAFE | Sail Nr EST 703 |
| File Est0703 | Data in meters/kilograms |

| | | | |
|--|------------------|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | |
| Inclining Test Current Inclining | | | |
| Flotation date 06.06.2017 | | SG 1,0000 | |
| FFM 1,367 | FF 1,377 | SFFP 0,300 | |
| FAM 1,110 | FA 1,117 | SAFP 10,260 | |
| W1 80,1 | PD1 203,0 | WD 11,040 | |
| W2 80,1 | PD2 202,0 | GSA 12,6 | |
| W3 80,1 | PD3 204,0 | RSA 4298,7 | |
| W4 80,1 | PD4 203,0 | PLM 2005,0 | |
| LCF from stem on CL / on sheer | | 6,263 / 6,501 | |
| Maximum beam station from stem | | 7,100 | |
| RM Measured | | 152,4kg·m | |
| RM Default | | 156,0kg·m | |
| Limit of positive stability / Stab.Index | | 118,7° / 121,4 | |
| Freeboard at mast at 4,200 | | 1,208 | |



World Leader in Rating Technology

2017

IMS Measurement Certificate

| | | | |
|--------------------------------|----------------------------|-------------------|-------------------|
| RIG | | | |
| Forestay Tension Aft | Spreaders 2 | | |
| Inner Stay None Fitted | Runners 0 | | |
| Carbon Mast Yes | Jumper Struts None | | |
| Taper Hollows No | Jib Furler No | | |
| Fiber Rigging No | Main Furler No | | |
| Lenticular Rigging No | Without Backstay No | | |
| Articulated Bowsprit No | | | |
| P 14,050 | E 5,175 | MDT1 0,110 | MW 0,194 |
| IG 15,064 | J 4,200 | MDL1 0,194 | GO 0,201 |
| ISP 16,020 | SFJ | MDT2 0,104 | BD 0,240 |
| BAS 1,766 | SPL 4,390 | MDL2 0,174 | MWT 107,50 |
| FSP 0,070 | TPS | TL 0,520 | MCG 5,140 |

Certificate

Number **EST703**

ORC Ref **EST00001403**

Issued On **12.06.2017**

VPP Ver. **2017 1.00**

Valid until **31.12.2017**

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

| | | | |
|------------------------------|--------------------|------------------|--|
| PROPELLER | | | |
| Installation Strut | PRD 0,415 | | |
| Type Folding 2 blades | PBW 0,105 | | |
| Twin Screw No | PIPA 0,0035 | | |
| ST1 0,042 | ST3 0,180 | ST5 0,285 | |
| ST2 0,180 | ST4 0,112 | EDL 2,400 | |

| | |
|-----------------|--|
| COMMENTS | |
| | |

| | |
|-------------------------|--|
| MOVEABLE BALLAST | |
| N/A | |

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

| | | | | | | | | | |
|------------------------------|-------|-------|-------|------|------|--------|----------|--|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0,180 | 1,02 | 1,83 | 3,35 | 4,27 | 42,62 | 43,49 | P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | 118,39 | | SL · (SFL + 4·SHW) / 6 | |
| | 16,36 | 16,36 | 16,36 | 8,85 | 8,02 | | | | |
| 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 |
| 0,11 | 0,81 | 1,48 | 2,63 | 3,63 | 4,51 | 14,75 | 36,71 | Y | | 08.06.2017 | Unknow | JibTop |
| 0,11 | 0,82 | 1,53 | 2,63 | 3,49 | 4,48 | 14,73 | 36,26 | Y | | 01.06.2016 | Twaron | Jib 1 2016 |
| 0,09 | 0,82 | 1,52 | 2,55 | 3,47 | 4,47 | 14,80 | 36,04 | Y | | 29.07.2015 | Unknow | |
| 0,11 | 0,70 | 1,31 | 2,39 | 3,37 | 4,40 | 14,73 | 34,13 | Y | | 01.06.2016 | Unknow | Jib 2 2016 |
| 0,10 | 0,77 | 1,35 | 2,38 | 3,33 | 4,33 | 14,76 | 34,08 | | | 16.03.2013 | Unknow | Light |
| 0,10 | 0,68 | 1,24 | 2,27 | 3,25 | 4,29 | 14,76 | 32,93 | | | 15.04.2013 | Unknow | Medium/heavy |
| 0,10 | | 1,10 | 2,12 | 3,13 | 4,12 | 14,35 | 30,28 | | | 20.03.2012 | Dacron | Heavy |

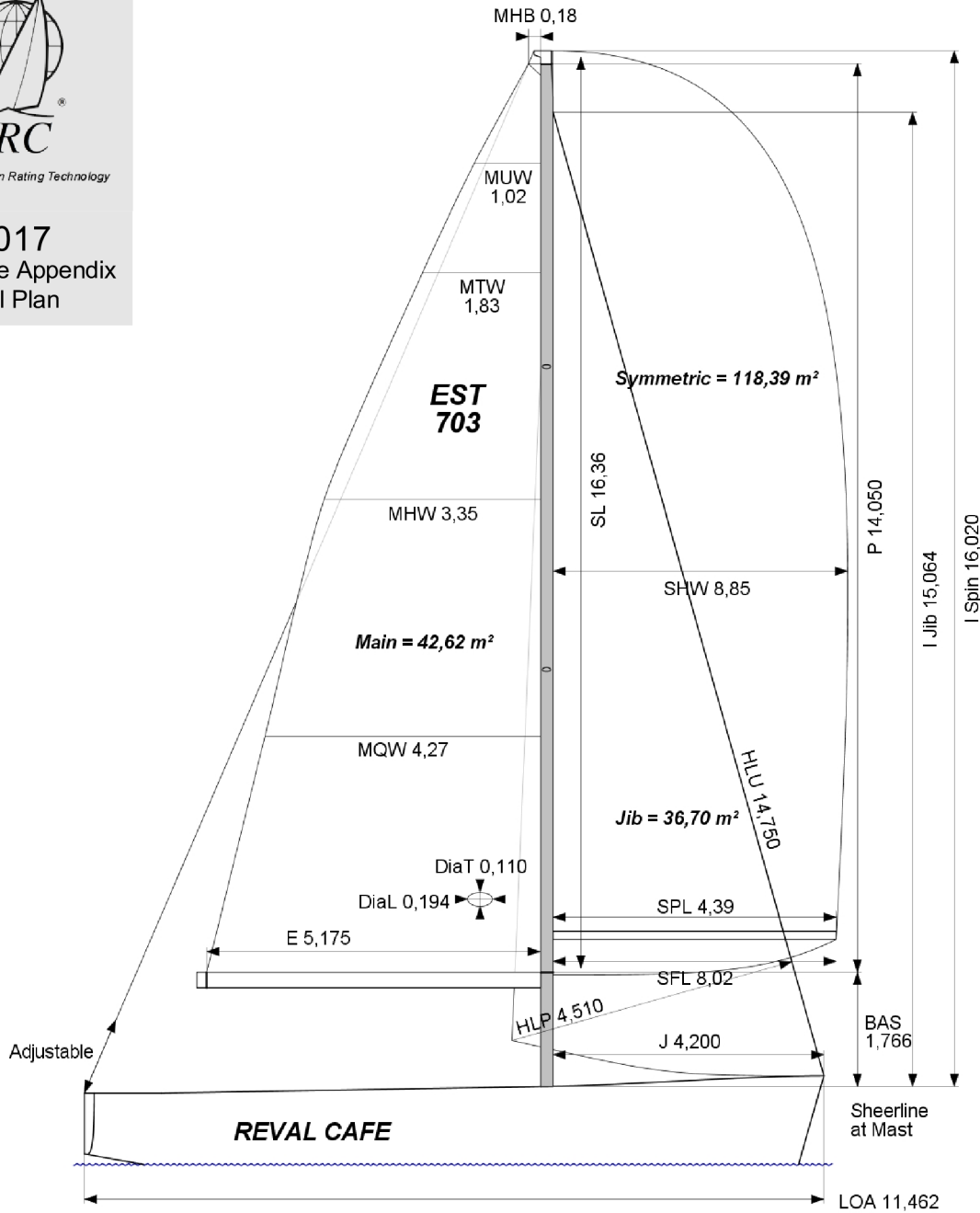
| | | | | |
|--------------------------------------|--------|--------------------|----------|-----------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer Arvet Tetsmann EST 1 | | | | |
| Date 06.06.2017 | | | | |
| Comment | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| 1 | Engine | YANMAR | 3YM20 | |
| Id | Item | Weight Description | | |

| | | | | | | | |
|------------------------------|---------|----------|-----------|-----------------|-------|-----|--------------------|
| MEASUREMENT INVENTORY | | | | | | | |
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn Description |
| 1 | Tank | Fuel | St. Steel | 100,0 | 5,40 | | 0,0 |
| 2 | Tank | Water | St. Steel | 100,0 | 5,40 | | 0,0 |
| Id | Item | Weight | Distance | VCG Description | | | |
| 1 | Battery | 21,9 | 6,35 | | | | |
| 2 | Battery | 21,9 | 6,50 | | | | |



World Leader in Rating Technology

2017
Certificate Appendix
Sail Plan



SAILS INVENTORY

| MANSAL (1) | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|------|------|--------|-----------|------------|-------------|-------------|----------------|----------|------------|-------------|----------|--------------|
| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 2a | 0,180 | 1,02 | 1,83 | 3,35 | 4,27 | 42,62 | EST 1 | 29.07.2015 | | Unknown | P14,05; E5,175 | | | | | |
| HEADSAILS (7) | | | | | | | | | | | | | | | | |
| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
| 8 | 0,11 | 0,81 | 1,48 | 2,63 | 3,63 | 4,51 | 14,75 | 107% | 36,71 | Y | | SLO 03 | 08.06.2017 | OneSails | Unknown | JibTop |
| 6 | 0,11 | 0,82 | 1,53 | 2,63 | 3,49 | 4,48 | 14,73 | 107% | 36,26 | Y | | ITA 73 | 01.06.2016 | OneSails | Twaron | Jib 1 2016 |
| 5b | 0,09 | 0,82 | 1,52 | 2,55 | 3,47 | 4,47 | 14,80 | 106% | 36,04 | Y | | EST 1 | 29.07.2015 | North | Unknown | Jib 2 2016 |
| 7 | 0,11 | 0,70 | 1,31 | 2,39 | 3,37 | 4,40 | 14,73 | 105% | 34,13 | Y | | ITA 73 | 01.06.2016 | OneSails | Unknown | Jib 2 2016 |
| 1 | 0,10 | 0,77 | 1,35 | 2,38 | 3,33 | 4,33 | 14,76 | 103% | 34,08 | | | D206 | 16.03.2013 | | Unknown | Light |
| 3 | 0,10 | 0,68 | 1,24 | 2,27 | 3,25 | 4,29 | 14,76 | 102% | 32,93 | | | D206 | 15.04.2013 | | Unknown | Medium/heavy |
| 4 | 0,10 | | 1,10 | 2,12 | 3,13 | 4,12 | 14,35 | 98% | 30,28 | | | D206 | 20.03.2012 | | Dacron | Heavy |
| SYMMETRIC SPINNAKERS (5) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment | | | | | |
| 7 | 16,36 | 16,36 | 16,36 | 8,85 | 8,02 | 118,39 | EST 1 | 20.05.2015 | HT Sail | Unknown | S2 | | | | | |
| 9 | 16,38 | 16,38 | 16,38 | 8,58 | 7,91 | 115,29 | SLO 03 | 10.05.2016 | OneSails | Nylon | | | | | | |
| 4 | 15,67 | 15,67 | 15,67 | 8,40 | 7,83 | 108,20 | EST 1 | 26.05.2014 | UK | Unknown | S2 Medium | | | | | |
| 10 | 14,99 | 14,99 | 14,99 | 8,35 | 8,02 | 103,48 | SLO 03 | 08.06.2017 | OneSails | Unknown | | | | | | |
| 8 | 15,10 | 15,10 | 15,10 | 7,69 | 6,88 | 94,73 | SLO 03/BG | 10.07.2015 | OneSail | Unknown | S3 | | | | | |
| ASYMMETRIC SPINNAKERS (0) | | | | | | | | | | | | | | | | |
| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment | | | | |