



# INTERNATIONAL FIVE point FIVE METRE CLASS

## Modern

|  |   |                           |
|--|---|---------------------------|
| Yacht's Name                                 | <i>Arunga VIII</i>                                      |                           |
| Sail Number                                  | <i>SUI185</i>   | Club <i>CNV</i>           |
| Designer                                     | <i>Ben Lexcen</i>                                       |                           |
| Builder                                      |   | Building Year <i>1983</i> |
| Owner  | <i>François Bouvier</i>                                 |                           |
| Owner's Address                              | <i>39, rue de Prieuré, CH-1202 Genève (Switzerland)</i> |                           |
| Veritas R class certificate (Number or Date) | <i>Lloyds</i>   |                           |

### RATING CERTIFICATE

This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 5.5 m.

This certificate is dated 27 juin 05

and its validity confirms Guy-Roland Perrin, Swiss Sailing/ ISAF - Measurer

for Swiss sailing (enter name of National Authority)

Valid until 27 juin 07

Supersedes \_\_\_\_\_ (enter former certif. number or date)

Signature

Stamp of Authority

5.471

| Item No              | Rule No | Measurement  | Min      | Actual    | Max                |
|----------------------|---------|--|----------|-----------|--------------------|
| <b>HULL</b>          |         |  |          |           |                    |
| 1                    | 23      | Immersion checked in salt or fresh water             |          | salt      |                    |
|                      |         | Difference of immersion with salt water              |          | 6mm       |                    |
| 2                    | 13      | Weight of inside ballast placed at <u>mid-ship</u>   |          | 0.000     |                    |
| 3                    | 5       | Beam   | 1.90m    | 1.987     |                    |
| 4                    | 2       | Max draft  |          | 1.343     | 1.350m             |
| 5                    | 4       | Freeboard at bow girth station                       |          | 0.793     |                    |
| 6                    | 4       | Freeboard at stern girth station                     |          | 0.519     |                    |
| 7                    | 4       | Freeboard at midship mark                            | 0.560m   | 0.602     |                    |
| 8                    | 4       | Freeboard average (item 5+6+7)                       | 0.628m   | 0.638     |                    |
| 9                    | 14(iii) | Keel and ballast material (lead or iron)             |          | lead      |                    |
| 10                   | 14(iv)  | Keel height of round at bottom                       |          | 0.000     |                    |
| 11                   | 14(iv)  | Maximum section width down to 1m below LWL           |          | 0.168     |                    |
| 12                   | 8       | Stern angle  | 1 in 5.5 | 1 in 5.15 |                    |
| 13                   | 9       | Round of beams (Max 7mm in 305 mm)                   |          | 2mm/305   | 7mm                |
| 14                   | 10      | Tumblehome   |          | 0.000     |                    |
| 15                   |         | Deduct 2% of maximum beam                            |          | 0.040     |                    |
| 16                   | 10      | Excess tumblehome (item 14-15)                       |          |           |                    |
| 17                   | 11      | Area of deck opening                                 |          | 0.000     | 2.25m <sup>2</sup> |
| 18                   | 12      | Cockpit forward of L1 mark                           | 1.75m    | 2.138     |                    |
| 19                   | 11      | Breadth of side decks                                | 0.350 m  | 2.249     |                    |
| <b>MISCELLANEOUS</b> |         |  |          |           |                    |
| 37                   | 29      | Weight of anchor                                     | 11.5kg   | 12.0      | 13kg               |
| 38                   | 29      | Length of wrap                                       | 30.5 m   | ok        |                    |
| 39                   | 23      | Top of I marks above water with yacht in racing trim |          | ok        |                    |

# INTERNATIONAL FIVE point FIVE METRE CLASS

| Item No                  | Rule No | Measurement  | Min    | Actual  | Max     |
|--------------------------|---------|--|--------|---------|---------|
| <b>SAILS AND RIGGING</b> |         |  |        |         |         |
| 20                       | 16      | Height of sail plan above covering board level           |        | 11.100  | 11.100m |
| 21                       | 18      | Height of boom (black band) above covering board level   | 0.500m | 0.680   | 0.850m  |
| 22                       | 17      | Height of foretriangle above covering board level (I)    |        | 8.880   | 8.880m  |
| 23                       | 16      | Base of foretriangle (J) (Deck black band to be checked) |        | 2.692   | 2.693   |
| 24                       | 16      | Min.headsail for measurement purpose                     |        | 9.562   |         |
| 25                       | 19      | Spinnaker halyard above forestay                         |        | 0.100   |         |
| 26                       | 19      | Spinnaker halyard out from mast                          |        | 0.030   |         |
| 27                       | 19      | Spinnaker breadth of half foot (Max = 1.25 x J)          |        | 3.365   | 3.365   |
| 28                       | 19      | Storm spinnaker breadth of half foot                     |        | 2.692   |         |
| 29                       | 19      | Spinnaker boom length                                    |        | 2.692   |         |
| 30                       | 21      | Mast diameter at 1/2 height of foretriangle              | 11.5cm | 104x140 |         |
| 31                       | 21      | Mast diameter at deck                                    | 10.9cm | 104x140 |         |
| 32                       | 21      | Mast diameter at jib halyard                             | 9.2cm  | 089x131 |         |
| 33                       | 21      | Mast diameter at top                                     | 5.8cm  | 048x051 |         |
|                          | 21      | Forward-Aft mast profile measurement                     | 125mm  | 130.0   |         |
|                          | 21      | Athwartsips mast profile measurement                     | 75mm   | 80.0    |         |
|                          | 21      | Constant section from heel to min 6m                     |        | yes     |         |
|                          | 21      | Permanent set not exceeding 50mm between marks           |        | no      |         |
| 34                       | 21      | Tip weight of mast (old min 40 kg)                       | 16kg   | 18.5    |         |
| 35                       | 22      | Boom depth   |        | 0.120   | 15.2cm  |
| 36                       | 22      | Boom width   | 3.8cm  | 0.086   |         |

|                             |    |  |        |              |        |
|-----------------------------|----|--|--------|--------------|--------|
| <b>LENGTH FOR RATING</b>    |    |  |        |              |        |
| 40                          | 3  | Overall length LOA                                     |        | 9.203        |        |
| 41                          | 3  | Overhang Forward to L1                                 |        | 0.922        |        |
| 42                          | 3  | Overhang Aft to L1                                     |        | 1.141        |        |
| 43                          | 3  | Total Overhang (Substract)                             |        | 2.063        |        |
| 44                          | 3  | MEASURED LENGTH (L1 L1)                                |        | 7.140        |        |
| 45                          | 3  | Girth at Bow   |        | 0.680        |        |
| 46                          | 3  | Twice vertical Height at Bow (Substract)               |        | 0.550        |        |
| 47                          | 3  | O at Bow   | 0.165m | 0.165        |        |
| 48                          | 3  | Girth at Stern   |        | 1.757        |        |
| 49                          | 3  | Twice vertical Height at Stern (Substract)             |        | 0.873        |        |
| 50                          | 3  | O at Stern   |        | 0.884        |        |
| 51                          | 3  | Add 1/3 O at Stern                                     | 0.234m | 0.295        |        |
| 52                          | 3  | Correct lenght   |        | 7.600        |        |
| <b>SAIL AREA FOR RATING</b> |    |  |        |              |        |
| 53                          | 17 | Largest headsail [m2]                                  | 9.562  | 9.588        | 9.588  |
| 54                          | 18 | Mainsail (Height)                                      | H:     | 10.420       |        |
|                             |    | Mainsail (between mast and boom band)                  | B:     | 3.726        |        |
|                             |    | 1/4 main sail girth (Including rope max 35% of B)      |        | 1.304        |        |
|                             |    | 1/2 main sail girth (Including rope max 60% of B)      |        | 2.236        |        |
| 55                          | 2  | Total sail area S (53+54)                              | 26.5m2 | 29.000       | 29.0m2 |
| 56                          | 2  | Square root of S                                       |        | 5.385        |        |
| <b>DISPLACEMENT</b>         |    |  |        |              |        |
| 57                          | 13 | Weight of yacht  |        | 1789         |        |
| 58                          | 13 | Displacement D=weight/1025.21                          | 1.7m3  | 1.745        | 2.0m3  |
| 59                          | 13 | Cubic root of D  |        | 1.204        |        |
| <b>RATING</b>               |    |  |        |              |        |
| 60                          | 2  | Rating calclated according to formula                  |        | 5.471        |        |
| 61                          | 10 | 3x tumblehome excess (add to item 60 for final rating) |        | 0.000        |        |
| 62                          | 2  | <b>FINAL RATING</b>                                    |        | <b>5.471</b> |        |

|                           |   |                    |               |
|---------------------------|---|--------------------|---------------|
| <b>Yacht's Name</b>       | <u>Arunga VIII</u>  | <b>Sail Number</b> | <u>SUI185</u> |
| This certificate is dated |   | <b>27 juin 05</b>  |               |
| Signature                 |  | Stamp of Authority |               |