


# INTERNATIONAL 2.4 METRE CLASS

## Rating Certificate

|   |  |   |
|---|--|---|
| <b>National Letters and Sail Number</b> | SWE 450                                    |   |
| <b>ISAF Plaque no.</b>                  | 569  |   |
| <b>Designer</b>                         | Peter Norlin III                           |   |
| <b>Builder</b>                          | Charger Cpmposites                         |   |
| <b>Building Year</b>                    | 2007                                       |   |
| <b>Owner</b>                            | Berndt Svensson                            |   |
| <b>Owners adress</b>                    | Sankta Gertruds väg 43<br>593 34 Västervik |   |
| Supersedes former certificate, dated    |  | <b>Swedish Sailing Federation</b>   |
| This certificate is dated               | 2011-12-05                                 |  |
| Validity confirmed by                   | Anders Larzon                              |   |
| Measurer:                               | Håkan Kellner                              | Stamp of Authority  |
| Complementary measurement:              |  |   |

|  |       |       |       |
|--|-------|-------|-------|
| <b>Overall Length</b>                            |       | 4,180 |       |
| Add (Overhang Forward to L <sub>1</sub> )        |       | 0,432 |       |
| Add (Overhang Aft to L <sub>1</sub> )            |       | 0,656 |       |
| Subtract Total Overhang                          |       | 1,088 | 1,088 |
| <b>Measured Length</b>                           |       |       | 3,092 |
| Girth at Bow                                     |       | 0,312 |       |
| Subtract (Twice Vertical Height at Bow           |       | 0,240 |       |
| 0 at Bow   |       | 0,072 |       |
| Add 1,5*0 at Bow, (min 0.108)                    |       |       | 0,108 |
| Girth at Stern                                   |       | 0,897 |       |
| Subtract (Twice Vertical Height at Stern         |       | 0,528 |       |
| 0 at Stern                                       |       | 0,369 |       |
| Add 1/3 0 at Stern, minimum 0.080                |       |       | 0,123 |
| Add any penalty at 0 <sub>2</sub>                |       |       |       |
| <b>Correct length, L</b>                         |       | 3,323 | 3,323 |
| Subtract (Skin d to d <sub>1</sub> Port          |       | 0,000 |       |
| Subtract (Chain d to d <sub>1</sub> Port         |       | 0,000 |       |
| d Port   |       | 0,000 |       |
| Subtract (Skin d to d <sub>1</sub> Starboard     |       | 0,000 |       |
| Subtract (Chain d to d <sub>1</sub> Starboard    |       | 0,000 |       |
| d Starboard                                      |       | 0,000 |       |
| Add d  |       |       | 0,000 |
| 2d   |       |       | 0,000 |
| <b>Add to find sum of measurements</b>           |       |       | 3,323 |
| Add (Mean Freeboard Bow 0                        |       | 0,327 |       |
| Add (Mean Freeboard Midship D                    |       | 0,291 |       |
| Add (Mean Freeboard Stern 0 and 0 <sub>2</sub> ) |       | 0,300 |       |
| Sum of Freeboards                                |       | 0,918 |       |
| <b>Subtract (1/3 sum) FREEBOARD, F, max</b>      | 0,292 |       | 0,292 |
|  |       |       | 3,031 |
| Beam penalty                                     |       |       | 0,000 |
| Tumblehome penalty                               |       |       | 0,000 |
| $\sqrt{S}$                                       |       |       | 2,654 |
| <b>Total of Measurements</b>                     |       |       | 5,685 |
| <b>Divide by 2.37 = RATING =</b>                 |       |       | 2,399 |
| Displacement penalty                             |       |       | 0,000 |
| Draft penalty                                    |       |       | 0,000 |
| <b>Final Rating</b>                              |       |       | 2,399 |

|  |                |
|--|----------------|
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| <b>ISAF Plaque no.</b>                           | 569            |
| <b>This certificate is dated</b>                 | 2011-12-05     |
| <b>Overall Length</b>                            | 4,180          |
| Add (Overhang Forward to L<br>(Overhang Aft to L | 0,432<br>0,656 |
| Subtract Total Overhang                          | <u>1,202</u>   |
| Water Line Length                                | 2,978          |
| <b>Beam at 1/3 Height of Midship Freebord</b>    | 0,000          |
| <b>Maximum draft</b>                             | 0,000          |
| <b>Tumble Home</b>                               | 0,000          |
| <b>Weight by weighing</b>                        | <u>254 kg</u>  |
| <b>with 35 kg ballast</b>                        | <u>289 kg</u>  |
| <b>Minimum weight required by Rule</b>           | <u>289 kg</u>  |

|                             |              |
|-----------------------------|--------------|
| <b>Areas of Sails</b>       | I = 3,750    |
|                             | J = 1,560    |
|                             | P = 4,650    |
|                             | E = 1,960    |
| Mainsail =                  | 4,557        |
| Foretriangle Total =        | 2,925        |
| Foretriangle Total x 0.85 = | <u>2,486</u> |
| Sail Area for Rating = S =  | <u>7,043</u> |
| $\sqrt{S}$                  | <u>2,654</u> |

If in doubt, the Certificate can be checked against the official website: [www.ssf.se/tk/24/cert24.as](http://www.ssf.se/tk/24/cert24.as)

