


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

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|---|---------------------------------|--|
| National Letters and Sail Number | SWE 367 | |
| ISAF Plaque no. | R 312 | |
| Designer | Hasse Malmsten | |
| Builder | Hasse Malmsten | |
| Building Year | 1998 | |
| Owner | Dag Fritzon | |
| Owners adress | Trolldansen 6 431 69 Mölndal | |
| Supersedes former certificate, dated | 2002-04-08 | Swedish Sailing Federation  |
| This certificate is dated | 2009-11-02 | |
| Validity confirmed by | <i>Kjell Martinsson</i> | |
| Measurer: Jussi Santinen | 1998-07-04 | Stamp of Authority |
| Complementary measurement: Per Lindell | 2009-08-20 | |

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|--|-------|-------|-------|
| Overall Length | | 4.357 | |
| Add (Overhang Forward to L ₁) | | 0.475 | |
| Add (Overhang Aft to L ₁) | | 0.823 | |
| Subtract Total Overhang | | 1.298 | 1.298 |
| Measured Length | | | 3.059 |
| 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 | | 0.893 | |
| Subtract (Twice Vertical Height at Stern) | | 0.500 | |
| 0 at Stern | | 0.393 | |
| Add 1/3 0 at Stern, minimum 0.080 | | | 0.131 |
| Add any penalty at 0 ₂ | | | |
| Correct length, L | | 3.298 | 3.298 |
| Subtract (Skin d to d ₁ Port) | | 0.000 | |
| Subtract (Chain d to d ₁ Port) | | 0.000 | |
| d Port | | 0.000 | |
| Subtract (Skin d to d ₁ Starboard) | | 0.000 | |
| Subtract (Chain d to d ₁ Starboard) | | 0.000 | |
| d Starboard | | 0.000 | |
| Add d | | | 0.000 |
| 2d | | | 0.000 |
| Add to find sum of measurements | | | 3.298 |
| Add (Mean Freeboard Bow 0) | | 0.336 | |
| Add (Mean Freeboard Midship D) | | 0.282 | |
| Add (Mean Freeboard Stern 0 and 0 ₂) | | 0.280 | |
| Sum of Freeboards | | 0.898 | |
| Subtract (1/3 sum) FREEBOARD, F, max | 0.292 | | 0.292 |
| | | | 3.006 |
| Beam penalty | | | 0.000 |
| Tumblehome penalty | | | 0.000 |
| \sqrt{S} | | | 2.682 |
| Total of Measurements | | | 5.688 |
| Divide by 2.37 = RATING = | | | 2.400 |
| Displacement penalty | | | 0.000 |
| Draft penalty | | | 0.000 |
| Final Rating | | | 2.400 |

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|---|---------------|
| National Letters and Sail Number | SWE 367 |
| ISAF Plaque no. | R 312 |
| This certificate is dated | 2009-11-02 |
| Overall Length | 4.357 |
| Add (Overhang Forward to L | 0.611 |
| (Overhang Aft to L | 0.864 |
| Subtract Total Overhang | <u>1.475</u> |
| Water Line Length | 2.882 |
| Beam at 1/3 Height of Midship Freebord | 0.000 |
| Maximum draft | 0.000 |
| Tumble Home | 0.000 |
| Weight by weighing | <u>241 kg</u> |
| with 35 kg ballast | <u>276 kg</u> |
| Minimum weight required by Rule | <u>264 kg</u> |

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|-----------------------------|--------------|
| Areas of Sails | I = 3.750 |
| | J = 1.560 |
| | P = 4.550 |
| | E = 2.070 |
| Mainsail = | 4.709 |
| Foretriangle Total = | 2.925 |
| Foretriangle Total x 0.85 = | <u>2.486</u> |
| Sail Area for Rating = S = | <u>7.196</u> |
| \sqrt{S} | 2.682 |

If in doubt, the Certificate can be checked against the official website:
www.svensksegling.se/Avdforbatteknik/Matbrev/Sokgiltigtentypsmatbrev/