# International 2.4 metre Measurement Form

Sail Number ..GBR. 159                ISAF Plaque Number ...R. 594

Owner... Mr. S. Bullmore .........        Name of yacht ...................

| | | | |
|---|---|---|---|
| Overall length | | | 4.181 |
| Overhang Forward to L1 | +0.428 | | |
| Overhang Aft to L1          Total overhang | +0.654 | → -1.082 | |
| Measured length | | | 3.099 |
| Girth at Bow | 0.315 | | |
| Twice Vertical Height at Bow          O at Bow | -0.240 → | 0.075 | |
| 1½ O at Bow | | +0.112 | |
| Girth at Stern | 0.890 | | |
| Twice Vertical Height at Stern          O at Stern | -0.544 → | 0.346 | |
| Add 1/3 O at Stern | | +0.115 | |
| Add any penalty at O2     Sum of Girth difference | | +0.000 → | +0.227 |
| Correct length, L | | | 3.326 |
| Skin girth d to d1 Port | 0.745 | | |
| Chain girth d to d1 Port          d Port | -0.745 → | +0.000 | |
| Skin girth d to d1 Starboard | 0.743 | | |
| Chain girth d to d1 Starb,          d Starboard | 0.743 → - | +0.000 | |
| d = d Port + d Starboard          2 x d | | 0.000 | +0.000 |
| Add to find sum of L + 2d | | | 3.326 |
| Mean freeboard Bow O | +0.329 | | |
| Mean freeboard Midships D | +0.307 | | |
| Mean freeboard Stern          Sum of freeboards | +0.308 → | 0.944 | |
| F=1/3 sum of freeboards          F, max 0.292 | | 0.317 | -0.292 |
| = L + 2d - F | | | 3.034 |
| Penalty Displacement Rule D.7.2.          LWL | 0.000 | | |
| Corr LWL     Difference     2 x difference | -0.000 → | 0.000 | +0.000 |
| Penalty Beam Rule D.7.3          Beam | 0.771 | | |
| Min beam     Deficiency     4 x deficiency | -0.720 → | 0.000 | +0.000 |
| √S | | | +2.654 |
| Total of Measurements L + 2d - F + √S | | | 5.688 |
| Divide by 2.37 = RATING = | | | 2.400 |
| Penalty Draft Rule D.7.1          Draft | 0.975 | | |
| Max draft     Excess     3 x excess | -1.000 → | 0.000 | +0.000 |
| Penalty Tumble home D.7.4          Tumble home | 0.000 | | |
| Max Tumble home     Excess     3 x excess | -0.015 → | 0.000 | +0.000 |
| **FINAL RATING** | | | 2.400 |

Other Measurements recorded by measurer

| | | |
|---|---|---|
| Overall Length | | 4·18↑ |
| Overhang Forward to L | + 545 | |
| Overhang Aft to L | + 654 | |
| Total Overhang (Sum overhang forward and aft) | → | - 1199 |
| Waterline Length (Overall Length - Total Overhang) | | 2·982 |
| Minimum measured cockpit frame over water level when ballasted and swamped in accordance with rule C.5.2 | | |
| Boat weight recorded by weighing according to rule C.5.1 | | 256·4 Kg |
| Boat weight including 35 kg ballast | | 291·4 Kg |
| Minimum weight by Rule D.7.2 $(0.2 \times LWL + 0.06)^3 \times 1.025$ | | 289 Kg |

## Sail Dimensions

$P = 4·650$

Outer point distance $E = 1·960$

Forestay height $I = 3·750$

Foretriangle base $J = 1·560$
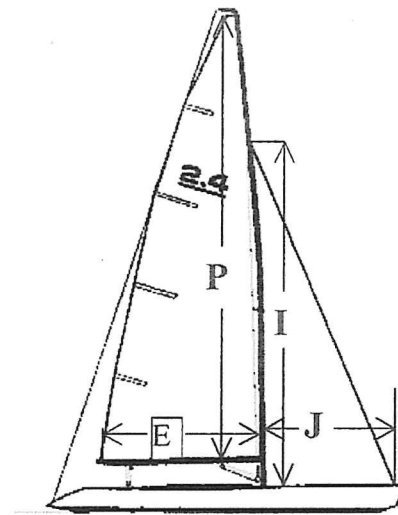
| | |
|---|---|
| Mast measurements checked | ✓ |
| Height of mast datum point Rule C.8.2 (b) (2) | / |
| Boom measurements checked | / |
| Rudder thickness, Rule E.4.3 | ✓ |

Areas of Sail

| | | |
|---|---|---|
| Mainsail $0.5 \times P \times E$ = | | $4·557 m^2$ |
| Foretriangle Total $0.5 \times I \times J$ = | $2·925 m^2$ | |
| Foretriangle Total $\times 0.85$ | | $2·486 m^2$ |
| Sail Area For Rating = $S$ = | | $7·043 m^2$ |
| $\sqrt{S}$ | | $2·654$ |

RYA official measurer

Builder...Charger Composite...Designer ...Peter Norlin... When Built.........

Measured by... K. GORDON ... Date of Measurement ..17./.05./2017

Complementary measured by.................... Date of compl measurement.................

Certificate issued by ........................... Date of issue...........................
name
CA ...................................
authority

...................................................
signature