

**RATING CALCULATION FORM FOR INTERNATIONAL A CLASS BOAT REG. No.**

**DATE OF THIS FUNDAMENTAL MEASUREMENT**

**MEASURED LENGTHS**

Measured waterline length, LWL   $\Delta$

QBL port   $\blacktriangleright$

QBL starboard   $\blacktriangleright$

QBL mean   $\Delta$

Maximum QBL without penalty  $(100 - \text{sq. rt}(.02 \text{ LWL}) / 100) \times \text{LWL}$

Excess   $\Delta$

0.5 x excess   $\Delta$

Measured length (L) for formula   $\Delta$

Minimum freeboard without penalty  $((0.28 \times \sqrt{D}) + 23)$    $\Delta$

Average freeboard   $\Delta$

Deficit   $\Delta$

Penalty = deficit   $\Delta$

Draught measured   $\blacktriangleright$

Draught without penalty  $(0.16 \text{ LWL} + 89)$    $\Delta$

Excess   $\Delta$

Penalty = excess x 3   $\Delta$

**Total penalty**   $\Delta$

**DISPLACEMENT**

Weight of boat (kg)   $\blacktriangleright$   $\times 10^6$    $\Delta$

Cube root of displacement  $\sqrt[3]{\text{Weight of boat}}$    $\Delta$

Enter smaller of two figures   $\blacktriangleright$

Maximum  $\sqrt[3]{D}$  used for rating  $0.2 \text{ LWL} + 25$    $\Delta$

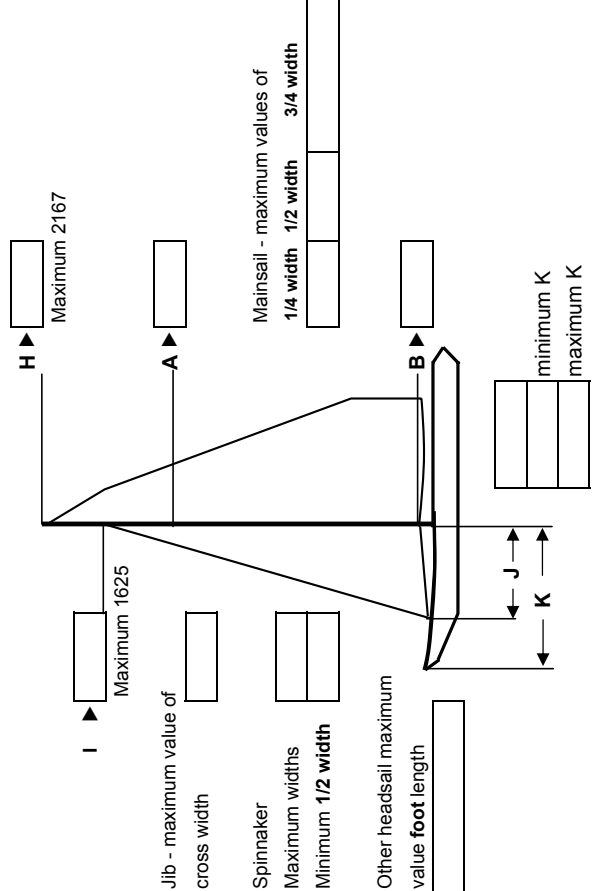
Minimum  $\sqrt[3]{D}$  without penalty  $0.2 \text{ LWL} + 10$    $\Delta$

Actual  $\sqrt[3]{D}$    $\Delta$

Difference   $\Delta$

If difference > 0,  $\sqrt[3]{D} = (\text{actual } \sqrt[3]{D} - \text{difference})$

$\sqrt[3]{D}$  for formula   $\Delta$



**FREEBOARD**

Measured

Fore	Port	Starboard
<input type="text"/>	<input type="text"/>	<input type="text"/>
Mid	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
Aft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Average freeboard  $\div 3$    $\Delta$

Mainsail  $\frac{A \times B}{2}$    $\Delta$

Foretriangle  $\frac{0.85 \times I \times J}{2}$    $\Delta$

Measured sail area   $\Delta$

$\sqrt{S}$  for formula  $\sqrt{\text{Measured sail area}}$    $\Delta$

Rating without penalties according to formula  $\frac{L + \sqrt{S}}{4} + \frac{L \times \sqrt{S}}{12 \times \sqrt{D}}$  is :   $\Delta$

Used manually,  $\blacktriangleright$  indicates measured value to be inserted and  $\Delta$  indicates value to be calculated and inserted: all rounded to the nearest mm.

Adding total penalty from above gives **RATING**

**NOTE: INTERNATIONAL "A" CLASS RATING CALCULATION FORM IS INTEGRAL PART OF THE CERTIFICATE**