

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. _____
(For London Office only).

| | | | | | |
|--|-----------------|----------------------------------|---------------|---------------|--|
| Ship's Name <i>Vidua 948/9</i> | Official Number | Nationality and Port of Registry | Gross Tonnage | Date of Build | Port of Survey |
| Moulded Dimensions: Length <i>446</i> Breadth <i>66</i> Depth <i>36-6</i> <i>28-0</i> | | | | | Date of Survey <i>4-4-45</i> |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth tons | | | | | Surveyor's Signature |
| Coefficient of fineness for use with Tables <i>.74 assumed</i> | | | | | Particulars of Classification <i>(0001 with 60)</i> <i>(Contingent)</i> |

| | | |
|---|---|--|
| Depth for Freeboard (D). | Depth correction. | Round of Beam correction. |
| Moulded depth ... <i>36-50</i> | (a) Where D is greater than Table depth (D - Table depth) R = <i>.52</i> | Moulded Breadth (B) |
| Stringer plate ... <i>.09</i> | <i>(36.54 - 29.73) x 3 = +20.48</i> | Standard Round of Beam = $\frac{B \times 12}{50} =$ |
| Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ | (b) Where D is less than Table depth (if allowed) (Table depth - D) R = | Ship's Round of Beam = |
| Depth for Freeboard (D) = <i>36.59</i> | If restricted by superstructures | Difference |
| | | Restricted to |
| | | Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ |

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) | |
|-------------------------|-------------------------|--|--------|-------------------|----------------------|--|
| Poop enclosed ... | | | | | | Standard Height of Superstructure |
| „ overhang ... | | | | | | „ „ R.Q.D. |
| R.Q.D. enclosed ... | | | | | | Deduction for complete superstructure |
| „ overhang ... | | | | | | Percentage covered $\frac{S}{L} =$ |
| Bridge enclosed ... | | | | | | „ „ $\frac{S_1}{L} =$ |
| „ overhang aft ... | | | | | | „ „ $\frac{E}{L} =$ |
| „ overhang forward | | | | | | Percentage from Table, Line A. |
| F'cle enclosed ... | | | | | | (corrected for absence of forecastle (if required)) |
| „ overhang ... | | | | | | Percentage from Table, Line B. |
| Trunk aft ... | | | | | | (corrected for absence of forecastle (if required)) |
| „ forward ... | | | | | | Interpolation for bridge less than .2L (if required) |
| Tonnage opening aft ... | | | | | | Deduction = <i>Nil</i> |
| „ „ forward | | | | | | |
| Total ... | | | | | | |

SHEER CORRECTION.

| Station | Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product | |
|------------------------------|-------------------|---|---|---------|-----------------|--------------------|---|---|---------|--|
| A.P. ... | | 1 | | | | | 1 | | | Mean actual sheer aft = |
| $\frac{1}{8}L$ from A.P. ... | | 4 | | | | | 4 | | | Mean standard sheer aft = |
| $\frac{2}{8}L$ „ ... | | 2 | | | | | 2 | | | Mean actual sheer forward = |
| Amidships ... | | 4 | | | | | 4 | | | Mean standard sheer forward = |
| $\frac{2}{8}L$ from F.P. ... | | 2 | | | | | 2 | | | Length of enclosed superstructure forward of amidships = |
| $\frac{1}{8}L$ „ ... | | 4 | | | | | 4 | | | „ „ aft of „ = |
| F.P. ... | | 1 | | | | | 1 | | | |
| Total ... | | | | | | | | | | |

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *Nil*

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

| | | |
|--|--|---|
| Deduction for Tropical Freeboard. | Deduction for Fresh Water. | TABULAR FREEBOARD |
| Addition for Winter and Winter North Atlantic Freeboard. | Displacement in salt water at summer load water line | Corrected for Fresh Deck (if required) |
| Depth to Freeboard Deck = <i>36-54</i> | $\Delta =$ | Correction for coefficient <i>.74 + .08 = 1.42</i> <i>1.36</i> |
| Summer freeboard = <i>9-18</i> | Tons per inch immersion at summer load water line | |
| Moulded draught (d) = <i>27-30</i> | T = | |
| Deduction for Tropical freeboard and addition for | Deduction = $\frac{\Delta}{40T}$ inches | |
| Winter freeboard = $\frac{d}{4}$ inches = | | |
| Addition for Winter North Atlantic Freeboard (if required) = | | |

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:

| | | | |
|--|-----|--------------------------------|-----|
| Tropical Fresh Water Line above Centre of Disc | ... | Tropical Fresh Water Freeboard | ... |
| Fresh Water Line | ... | Fresh Water | ... |
| Tropical Line | ... | Tropical | ... |
| Winter Line below | ... | Winter | ... |
| Winter North Atlantic Line | ... | Winter North Atlantic | ... |