

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

Ship's Name: Mokuia 556/7, Official Number, Nationality and Port of Registry, Gross Tonnage, Date of Build, Port of Survey, Date of Survey: 31.10.50, Surveyor's Signature, Particulars of Classification, Moulded Dimensions: Length 421.00, Breadth 59.05, Depth 28.09, Moulded displacement at moulded draught = 85 per cent. of moulded depth, tons, Coefficient of fineness for use with Tables: 717 (Calculated)

DEPTH FOR FREEBOARD (D), DEPTH CORRECTION, ROUND OF BEAM CORRECTION. Includes calculations for moulded depth, stringer plate, sheathing on exposed deck, and beam correction.

DEDUCTION FOR SUPERSTRUCTURES. Table with columns: Mean Covered Length (S), Equivalent Enclosed Length (S1), Height, Height Correction, Effective Length (E). Includes calculations for standard height of superstructure and percentage covered.

SHEER CORRECTION. Table with columns: Station, Standard Ordinate, S, M, Product, Actual Ordinate, Effective Ordinate, S, M, Product. Includes calculations for mean actual and standard shear aft and forward.

Deduction for Tropical Freeboard, Deduction for Fresh Water, TABULAR FREEBOARD corrected for Flush Deck (if required). Includes calculations for depth to freeboard deck, summer freeboard, moulded draught, and various corrections.

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :- Table with columns for Tropical Fresh Water Line, Fresh Water Line, Tropical Line, Winter Line, Winter North Atlantic Line, and their respective freeboard values.



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

$$\begin{aligned} \text{Be conversion } .85 &= .85 \left( \frac{28.09}{36.09} \right) \times .13 \\ &= (.85 - .662) \times .13 \\ &= .188 \times .13 \\ &= .024 \end{aligned}$$

$$\begin{aligned} \text{New Be} &= .741 - .024 \\ &= .717 \end{aligned}$$

$$\begin{array}{rcl} \text{J.S. Draught} & = & 27.34' \\ \text{CSS} & = & 24.96' \\ \hline & & 2.38' \text{ Diff.} \\ \text{Ship's Draught} & = & 25.59' \end{array}$$

$$\begin{array}{r} 25.59 \\ 24.96 \\ \hline .63 \end{array}$$

$$\begin{aligned} \text{Loading port area full draught} &= 5.472 \text{ m}^2 \\ \text{CSS} &= 2.736 \text{ m}^2 \\ \hline &2.736 \end{aligned}$$

$$\begin{aligned} \text{Area Req'd for draught } 25.59 &= \frac{.63}{2.38} \times 2.736 \text{ m}^2 \\ &= 2.736 + .724 \\ &= \underline{\underline{3.460 \text{ m}^2}} \end{aligned}$$

Trade of ship .....

Names of sister ships .....

Builder's name and yard number .....

Owners .....

Fee £.....



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Foundation