

PRELIMINARY

LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received Index No. Govt. Copy Owners C11

Ship's Name: LENGTHENING OF 'MOBILE RADIANT.' Official Number, Nationality and Port of Registry, Gross Tonnage, Date of Build, Port of Survey: LONDON OFFICE, Date of Survey: 26/9/62, Surveyor's Signature, Particulars of Classification.

Moulded Dimensions: Length 25.145 m, Breadth 2.53 m, Depth 12.954 m, Freeboard Length 20.853 m, Moulded displacement at moulded draught = 85 per cent. of moulded depth 45859 m³ tons, Coefficient of fineness for use with Tables 1.801 / (-.706)

DEPTH FOR FREEBOARD (D), DEPTH CORRECTION, ROUND OF BEAM CORRECTION. Includes calculations for moulded depth, stringer plate, wood sheathing, and beam corrections.

DEDUCTION FOR SUPERSTRUCTURES.

FROM PREVIOUS 011

Table with columns: Mean Covered Length (S), Equivalent Enclosed Length (S1), Height, Height Correction, Effective Length (E). Rows include Poop enclosed, R.Q.D. enclosed, Bridge enclosed, F'cle enclosed, Trunk aft, Tonnage opening aft.

Standard Height of Superstructure 2.290 m, R.Q.D. 1.870 m, Deduction for complete superstructure 1067 m, Percentage covered S/L = 38.28, S1/L = 65.78, E/L = 58.36, Deduction = 1067 x 58.36 = 623 m.

SHEER CORRECTION.

EXCESS HT of POOP = 2591 - 2290 = 301 m

Table with columns: Station, Standard Ordinate, S, Product, Actual Ordinate, Effective Ordinate, M, Product. Rows include A.P., 1/4 L from A.P., 1/2 L, Amidships, 3/4 L from F.P., 1/4 L, F.P., Total.

Mean actual sheer aft, Mean standard sheer aft, Mean actual sheer forward, Mean standard sheer forward, Length of enclosed superstructure forward of amidships, aft of, SHEER ALLOWANCE = 301 x 29300 / 206853 = 19.2 m.

Correction = Difference between sums of products / 18 = (16437 - 1914) / 18 = 806 m. If limited to maximum allowance of 1 1/4 ins. per 100ft.

Deduction for Tropical Freeboard, Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 12980, Summer freeboard = 2990, Moulded draught (d) = 9.990.

Deduction for Fresh Water. Displacement in salt water at summer load water line, Tons per inch immersion at summer load water line, Deduction = Delta / 40 T inches.

TABULAR FREEBOARD corrected for Flush Deck (if required). Correction for coefficient 1.76, Depth Correction 202, Deduction for superstructures 623, Sheer correction 499, Round of Beam correction, Correction for Thickness of Deck amidships, Other corrections, scantlings, etc.

Table with columns: +, -. Rows include Depth Correction, Deduction for superstructures, Sheer correction, Round of Beam correction, Correction for Thickness of Deck amidships, Other corrections, scantlings, etc. Summer Freeboard = 2990.

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

Table with columns: Tropical Fresh Water Line above Centre of Disc, Fresh Water Line, Tropical Line, Winter Line, Winter North Atlantic Line below, Tropical Fresh Water Freeboard, Fresh Water, Tropical, Winter, Winter North Atlantic.



