

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
Index No.
Govt. Copy
Owners C11

Ship's Name: CEDAR TRADER. Official Number: Nationality and Port of Registry: BRITISH LONDON. Gross Tonnage: Date of Build: Port of Survey: Date of Survey: 20.3.56. Surveyor's Signature: Particulars of Classification: +100A1 OLE CARRIER.

DEPTH FOR FREEBOARD (D). Moulded depth: 35.00. Stringer plate: 07+07 double. Wood Sheathing on exposed deck: T((L-S)/L) = . Depth for Freeboard (D) = 35.14. DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (35.14 - 29.33) 3.0 = 17.43. (b) Where D is less than Table depth (if allowed) (Table depth-D) R = 6.81. If restricted by superstructures. ROUND OF BEAM CORRECTION. Moulded Breadth (B): 59.00. Standard Round of Beam = B x 12 / 50 = 14.16. Ship's Round of Beam = 14.76. Difference = .60. Restricted to. Correction = Diff / 4 x (1 - S) = .60 / 4 x (1 - .554) = .08.

DEDUCTION FOR SUPERSTRUCTURES. Table with 5 columns: Mean Covered Length (S), Equivalent Enclosed Length (S1), Height, Height Correction, Effective Length (E). Rows include Popp enclosed, R.Q.D. enclosed, Bridge enclosed, F'cle enclosed, Trunk aft, Tonnage opening aft, Total. Standard Height of Superstructure: 7.50. R.Q.D. Deduction for complete superstructure: 42.0. Percentage covered S/L = 44.57. Percentage from Table, Line A. Spaced 35.59. Deduction = 42.0 x .3559 = 14.95.

SHEER CORRECTION. Table with 8 columns: Station, Standard Ordinate, S, Product, Actual Ordinate, Effective Ordinate, S, Product. Rows include A.P., 1/2L from A.P., 3/4L, Amidships, 1/2L from F.P., 1/4L, F.P., Total. Mean actual shear aft = 40.50. Mean standard shear aft = 20.32. Mean actual shear forward = 72.00. Mean standard shear forward = 72.00. Length of enclosed superstructure forward of amidships = 281.18. Correction = Difference between sums of products / 18 = 281.18 / 18 = 15.62. If limited to maximum allowance of 1 1/2 ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 35.14. Summer freeboard = 4.48. Moulded draught (d) = 27.66. Keel allowance = . Extreme draught = . Deduction for Tropical freeboard and addition for = . Winter freeboard = d inches = 6.92 = 7. Addition for Winter North Atlantic Freeboard (if required) = 4.40 + 6.92 = 11.32 = 11 1/2. 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 = 7 3/4. TABULAR FREEBOARD corrected for Flush Deck (if required). Correction for coefficient = 804 + .68 = 1484 / 136 = 10.91. Depth Correction = 17.43. Deduction for superstructures = 14.95. Sheer correction = 8.23. Round of Beam correction = .08. Correction for Thickness of Deck amidships = . Other corrections, scantlings, etc. = . Summer Freeboard = 89.74.

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck. Table with 2 columns: Tropical Fresh Water Line above Centre of Disc, Fresh Water Line, Tropical Line, Winter Line, Winter North Atlantic Line. Values: 14 1/4, 7 3/4, 7, 7, 11 1/4. Tropical Fresh Water Freeboard = 6 - 3 = 3. Fresh Water = 6 - 10 = 4. Tropical = 6 - 10 3/4 = 4 1/4. Winter = 8 - 0 3/4 = 7 3/4. Winter North Atlantic = 8 - 5 = 3.

Cedar Trader.

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.

Shear off.

$$T.D. LF = 7'-10" \checkmark$$

$$Standard = 7'-6" \checkmark$$

$$Excess = 0'-4" \checkmark$$

$$Shear at AP = 36.50 + 4.0 = 40.50 \checkmark$$

$$\begin{array}{r} 6 \overline{) 440} \quad 79.70 \\ \underline{420} \quad 7.333 \\ 20 \quad 26.37 \checkmark \end{array}$$

$$Shear at \frac{1}{6} L. = 4.80 + 4.0 \left(\frac{26.37}{99.70} \right)^2 \checkmark$$

$$5.08 \checkmark$$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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