

11. 27730

having

Ship's Name

WINSUM

Moulded Dimensions: Length 359.50 B.

Moulded displacement at moulded draught = 85 per cent.

Coefficient of fineness for use with Tables

Depth for Freeboard (D)

Table depth ... 24.62 (a) Where D is less than Table depth

Deck plate ... 0.04

Correction on exposed deck

(L-S)/L =

Depth for Freeboard (D) = 24.66

If restricted by superstructure

DEDUCTION FOR SUPERS.

Table with columns: Mean Covered Length (S), Equivalent Enclosed Length (S1), Height, Height Correction, Effective Length (E). Rows include items like 'Superstructure enclosed', 'Overhang', 'Bridge enclosed', etc.

Deduction =

Percentage

Percentage from Table

Percentage from Table, Line

Interpolation for bridge less than 2

Deduction = 39.30 x .3358 =

SHEER CORRECTION.

Table with columns: Station, Standard Ordinate, S, M, Product, Actual Ordinate, Effective Ordinate, S, M, Product. Rows include 'Midships', 'Forward of midships', 'Aft of midships'.

Mean actual shear aft = Difference

Mean actual shear forward = Difference

Length of enclosed superstructure forward of amidships =

" " aft of " =

Handwritten calculations for shear correction: 30.33 - 18.60 = 11.73, 122.67 - 102.00 = 20.67, 91.90 - 86.00 = 5.90, 244.90 - 206.60 = 38.30

Correction = Difference between sums of products / 18 \* (.75 - S/2L) = 38.30 / 18 \* (.75 - .2427) = + 1.58"

Limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Correction for Tropical Freeboard.

Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 24.66 Ft. Summer freeboard = 4.58 Moulded draught (d) = 20.08

Correction for Tropical freeboard and addition for Winter freeboard = d/4 inches = 5"

Correction for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Delta =

Tons per inch immersion at summer load water line

T =

Deduction = Delta / 40 T inches = 5"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

90.5 + 68 = 158.5 / 136 = 1.166

Depth Correction ... 2.02 Deduction for superstructures ... 1.94 Sheer correction ... 1.58 Round of Beam correction ... 1.85 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 5.59

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 = 55.04

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

Table with columns: Description, Value. Rows include Tropical Fresh Water Line above Centre of Disc (10"), Fresh Water Line (5"), Tropical Line (5"), Winter Line below (5"), Winter North Atlantic Line (5"), Tropical Fresh Water Freeboard (3'-9"), Fresh Water (4'-2"), Tropical (4'-2"), Winter (5'-0"), Winter North Atlantic (5'-0").