

having

Ship's Name

WINSUM

Moulded Dimensions: Length 359.50 Bt  
Moulded displacement at moulded draught = 85 per cent.  
Coefficient of fineness for use with Tables .86

Depth for Freeboard (D)  
Moulded depth ... .. 24.62  
Superstructure plate ... .. 0.04  
Allowance on exposed deck  
 $\frac{(L-S)}{L} =$  ✓  
Depth for Freeboard (D) = 24.66

(a) Where D is less than (Table depth - D)

(b) Where D is less than (Table depth - D)

If restricted by superstructure

DEDUCTION FOR SUPERS.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Superstructure enclosed ...	25.69	25.69	7.21		25.69
„ overhang ...	1.51	.75	„		.75
„ Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	115.00	115.00	7.00	7.00	113.48
„ overhang aft ...	2.50	1.87	„		1.85
„ overhang forward ...	2.50	1.25	„		1.23
„ Deck enclosed ...	24.79	24.79	7.00	7.00	24.44
„ overhang ...	2.50	2.11	„		2.08
„ Trunk aft ...					
„ forward ...					
„ Port opening aft ...	✓				
„ „ forward ...					
Total ...	174.49	171.46			169.52

Deduction

Percentage

„

„

Percentage from Table

(corrected for absence of

Percentage from Table, Line

(corrected for absence of fore

Interpolation for bridge less than 2

Deduction = 39.30 x .3358 =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
„	45.95	1			43.00		1		43.00
„	20.45	4			12.00		4		48.00
„	5.25	2			4.00		2		8.00
„	5.00	4					4		
„	10.11	2			6.20		2		12.40
„	40.89	4			20.00		4		80.00
„	91.90	1			86.00		1		86.00
Total				413.55					355.40

Mean actual sheer aft = Difference  
Mean standard sheer aft =

Mean actual sheer forward = Difference  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = L

„ „ aft of „ =

30.33 - 18.60 = 11.73  
122.67 - 102.00 = 20.67  
91.90 - 86.00 = 5.90  
244.90 - 206.60 = 38.30

= 84.36 %

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{58.15}{18} (.75 - .2427) = + 1.58$

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  
Summer freeboard = 4.58  
Moulded draught (d) = 20.08

Correction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 5

Correction for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40T}$  inches

= 5

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$\frac{90.5 + .68}{1.36} = 14.85$

Depth Correction ... .. 2.02  
Deduction for superstructures ... .. 1.94  
Sheer correction ... .. 1.58  
Round of Beam correction ... .. 1.65  
Correction for Thickness of Deck amidships ... ..  
Other corrections, scantlings, etc. ... .. 5.59

Summer Freeboard = 55.04

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

Tropical Fresh Water Line above Centre of Disc ... .. 10  
Fresh Water Line „ „ ... .. 5  
Tropical Line „ „ ... .. 5  
Winter Line below „ „ ... .. 5  
Winter North Atlantic Line „ „ ... ..

Tropical Fresh Water Freeboard ... .. 4'-7"  
Fresh Water „ „ ... .. 3'-9"  
Tropical „ „ ... .. 4'-2"  
Winter „ „ ... .. 4'-2"  
Winter North Atlantic „ „ ... .. 5'-0"