

PRELIMINARY.

Index No. 39998  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

HAMILTONS 484

Moulded Dimensions: Length 425.54 Breadth 57.32 Depth 29'-0" ✓  
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 12,850 tons ✓  
 Coefficient of fineness for use with Tables .748 ✓

Port of Survey

Date of Survey 14-3-49

Surveyor's Signature

Particulars of Classification 100 A1

with freeboard.

## DEPTH FOR FREEBOARD (D).

Moulded depth ... 29.0  
 Stringer plate ... .04  
 Sheathing on exposed deck  
 $T \left( \frac{L-S}{L} \right) =$   
 Depth for Freeboard (D) = 29.04

## DEPTH CORRECTION.

(a) Where D is greater than Table depth  
 (D-Table depth) R =  
 $(29.04 - 28.37) 3 = +2.01$  ✓  
 (b) Where D is less than Table depth (if allowed)  
 (Table depth-D) R =  
 If restricted by superstructures

## ROUND OF BEAM CORRECTION.

Moulded Breadth (B) 57.29 ✓  
 Standard Round of Beam =  $\frac{B \times 12}{50} = 13.75$  ✓  
 Ship's Round of Beam = 14 ✓  
 Difference 0.25 ✓  
 Restricted to  
 Correction =  $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.25 \times .0056}{4} = \text{NIL}$  ✓

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	41.83	41.83	9'-0"	-	41.83
" overhang ...	.50	.25			.25
R.Q.D. enclosed ...	-				
" overhang ...	-				
Bridge enclosed ...	378.71	378.71	9'-0"	-	378.71
" overhang aft ...	-				
" overhang forward ...	-				
Fore enclosed ...	-				
" overhang ...	-				
Trunk aft ...	-				
" forward ...	-	2.11			
Tonnage opening aft ...	4.50	2.38			2.38
" " forward ...	-				
Total ...	425.54	423.17			423.17

Standard Height of Superstructure 7.50' ✓

" " R.Q.D. ✓

Deduction for complete superstructure 42.00" ✓

Percentage covered  $\frac{S}{L} = 100$  ✓" "  $\frac{S_1}{L} =$  ✓" "  $\frac{E}{L} =$  99.44 ✓

Percentage from Table, Line A. 99.31 ✓

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction =  $42.0 \times .9931 = 41.71$  ✓

## SHEER CORRECTION.

Actual ht of 0.17 = 108 ins  
 Net " " = 90  
 Excess = 18 ✓

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	52.55	1	52.55	75.00	93.00	1	93.00
$\frac{1}{2}$ L from A.P. ...	23.385	4	93.54	33.00	4.89	4	165.56
$\frac{1}{2}$ L " ...	5.78	2	11.56	8.50	10.23	2	20.46
Amidships ...	✓	4	✓	✓		4	
$\frac{1}{2}$ L from F.P. ...	11.56	2	23.12	15.00	16.83	2	33.66
$\frac{1}{2}$ L " ...	46.77	4	187.08	59.00	68.08	4	272.32
F.P. ...	105.11	1	105.11	135.00	153.00	1	153.00
Total ...	✓	✓	472.96	+18			738.00

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{265.04 \times .25}{18} = -3.68$  ✓

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Ft.  
 Depth to Freeboard Deck = 29.04 ✓  
 Summer freeboard = 3.35 ✓  
 Moulded draught (d) = 25.69 ✓

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =  $6.42 = 6\frac{1}{2}$ "

Addition 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 =  $\frac{\Delta}{40 T}$  inches=  $6\frac{1}{2}$ "

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{.748 + .68}{1.36} = 1.428 / 1.36$  ✓

Depth Correction ... 2.01 ✓

Deduction for superstructures ... 41.71 ✓

Sheer correction ... 3.68 ✓

Round of Beam correction ... ✓

Correction for Thickness of Deck amidships ... ✓

Other corrections, scantlings, etc. ... ✓

2.01 46.39 - 43.38

Summer Freeboard = 40.12

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

Tropical Fresh Water Line above Centre of Disc 13. " ✓  
 Fresh Water Line " " 6.5 " ✓  
 Tropical Line " " 6.5 " ✓  
 Winter Line below " " 6.5 " ✓  
 Winter North Atlantic Line " " ... ✓

Tropical Fresh Water Freeboard 21 - 2.5 " ✓  
 Fresh Water " 21 - 2.5 " ✓  
 Tropical " 21 - 2.5 " ✓  
 Winter " 21 - 2.5 " ✓  
 Winter North Atlantic " 21 - 2.5 " ✓