TIMBER.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
TYLON	9005	SWEDISH HALMSTAD	847	1914 6 ms.

Port of Survey ____

Date of Survey 4.5.49.

Surveyor's Signature ____

Particulars of Classification +100 A1.

Moulded Dimensions: Length 210·20 Breadth 31·50 Depth 15·58

Moulded displacement at moulded draught = 85 per cent. of moulded depth ____ tons

Coefficient of fineness for use with Tables ·736 (Estimated)

DEPTH FOR FREEBOARD (D).
Moulded depth ... ... 15·58

Stringer plate ... ... ·03

Sheathing on exposed deck $T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = 15·61

DEPTH CORRECTION.
(a) Where D is greater than Table depth (D—Table depth) R = +2·59 ✓

(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)

Standard Round of Beam = $\dfrac{B \times 12}{50}$ =

Ship's Round of Beam =

Difference

Restricted to

Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = −·03 ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward...					
Total	115·92	108·72			108·72

Standard Height of Superstructure 6·00

„ „ R.Q.D. ✓

Deduction for complete superstructure 27·02

Percentage covered $\dfrac{S}{L}$ = 65·15

„ „ $\left.\dfrac{S_1}{L}\atop\dfrac{E}{L}\right\}$ 51·72

Percentage from Table, Line A. TIMBER 70·32 ✓
(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 = 27·02 × ·7032 ✓ = 19·00" ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
¼L from A.P. ...		4				4	
½L „		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
¼L „ ...		4				4	
F.P.		1				1	
Total ...			279·17				278·60

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ = Deficient

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ = Deficient

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships = $\left.\right\}$ Deficient

„ „ aft of „ = Sheer.

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(·75 - \dfrac{S}{2L}\right)$ = +·02" ✓

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.

Depth to Freeboard Deck = 15·61 Ft.

TROP. Summer freeboard = 0·81

Moulded draught (d) = 14·80

TIMBER Deduction for Tropical freeboard and addition for

Winter freeboard = $\dfrac{d}{4}$ inches = 3·70 = 94 m/m

TIMBER Addition for Winter North Atlantic Freeboard (if required) = $\dfrac{d}{3}$ = 4·93 = 125 m/m

Deduction for Fresh Water.
Displacement in salt water at summer load water line

$\triangle$ =

Tons per inch immersion at summer load water line

T =

Deduction = $\dfrac{\triangle}{40\,T}$ inches = 89 m/m

TABULAR FREEBOARD corrected for Flush Deck (if required) 24·84

Correction for coefficient $\dfrac{·736 + ·68}{1·36} = \dfrac{1·416}{1·36}$ 25·86

	+	−
Depth Correction	2·59	
Deduction for superstructures		19·00
Sheer correction	·02	
Round of Beam correction		·03
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	2·61	19·03 −16·42 ✓

JAR. 5.5.49.

Summer Freeboard 9·44 ✓

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

TIMBER

Tropical Fresh Water Line above Centre of Disc	396 m/m ✓	Tropical Fresh Water Freeboard	67 " ✓		245 m/m ✓
„ Fresh Water Line „ „	307 ✓	Fresh Water	156 " ✓		
„ Tropical Line „ „	307 ✓	Tropical	156 " ✓		
„ Winter Line above below „	92 ✓	Winter	371 " ✓		
„ Winter North Atlantic Line below „	102 ✓	Winter North Atlantic	565		
„ Summer line „	218 ✓				

Existing freeboards assigned 10.5.1949 TIMBER