

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

PINEBRANCH SURVEY FOR FREEBOARD

1816

 STEAMER, TANKER, SAILER: EX SS "THUNDER BAY" WITH
WITHOUT TIMBER DECK CARGO

Nationality, Builders' Name and No. of Ship

Port of Registry

Official Number

Owners

Gross Tonnage

Date of Build

Port and Date of survey

Name of Surveyor

Particulars of Classification

Names of Sister Ships

Type of Superstructures

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

4'-9"✓

TROPICAL FRESH WATER LINE above centre of disc

Corresponding Freeboard

FRESH WATER LINE

" " "

" "

TROPICAL LINE

" " "

5"✓

" "

5'-2"✓

WINTER LINE

below " "

10"✓

" "

5'-7"✓

WINTER NORTH ATLANTIC LINE " " "

" "

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.

Corresponding Freeboard

FRESH WATER

" " " "

" "

TROPICAL

" " " "

" "

WINTER

" " below "

" "

WINTER NORTH ATLANTIC " " " "

" "

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the



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Lloyd's Register
Foundation

Secretary

003418-003420-0061

LAKE FREEBOARD.

COMPUTATION OF FREEBOARD

Length on summer load line Moulded Breadth Moulded Depth Depth of Keel

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} =$

Displacement and tons per inch immersion in salt water at summer load line

Moulded depth

Stringer Plate Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ Round of Beam Correction

Rise of floor (in sailers) Ships Round of Beam inches

Depth for Freeboard (D) Standard Round of Beam $\frac{B \times 12}{50}$

Table Depth Difference

Depth Correction Restricted to

If restricted by superstructures Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) =$

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle						
Trunk Aft						
„ Forward						
Tonnage Opening Aft						
„ „ Forward						
Totals						

Standard Height of Superstructure

„ „ R.Q.D.

Percentage covered S/L =

„ „ E/L =

„ from Table line A, B, (corrected for absence of forecastle if required)

Percentage from Table by interpolation for Bridge less than .2L if required =

Deduction =

Percentage from Table for Tankers (or Timber ships) =

Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{8}$ L from A.P.				4	
$\frac{1}{8}$ L from A.P.				2	
Amidships				4	
$\frac{1}{8}$ L from F.P.				2	
$\frac{1}{8}$ L „ „				4	
F.P.				1	
				18	

Mean Actual sheer aft =

„ Standard „ „

Mean Actual sheer forward =

„ Standard „ „

Length of enclosed superstructure forward of amidships =

Length of Ship

Length of enclosed superstructure aft of amidships =

Length of Ship

Sheer Correction = Difference $\times \left(.75 - \frac{S}{2L}\right) =$

If limited on account of midship superstructure =

„ to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. =

Effective Mean Sheer =

Standard „ „ .05L + 5 =

Difference

TABULAR FREEBOARD corrected for flush deck if required = $29.225 + 3.694 = 32.919$

Correction for co-efficient = $\frac{1.4913}{1.36} = 36.10$

DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction				
Deduction for superstructures				
Sheer correction				
Round of Beam correction				
Correction for thickness of deck amidships				
Other corrections, scantlings, etc.				

Summer Freeboard in Inches $S = 4'-9'' = 57.23$

Additional allowance for superstructures on

Timber carrying ships =

Summer Timber Freeboard in inches =

Deduction for Tropical and addition for Winter freeboard $d/4 = 10.03$ ins.

Addition for Winter North Atlantic (if required) = 6.01 ins.

Deduction for Tropical Timber Freeboard $\frac{d}{4} =$ ins.

Addition for Winter „ $\frac{d}{4} =$ ins.

„ „ N.A. Timber Freeboard (if required) = ins.

