

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____

Port of Survey _____

(Type of Superstructures.)

Date of Survey **27.11.34**

Ship's Name **Hawthorn Leslie Ltd**
Yard No. **596**

Nationality and Port of Registry _____ Official Number _____ Gross Tonnage _____ Date of Build _____

Name of Surveyor _____

Moulded Dimensions: Length **225.0** Breadth **33.0** Depth **16.5**

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

Coefficient of fineness for use with Tables **.708**

Particulars of Classification **100A1**
contemplated.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	16.50	(a) Where D is greater than Table depth (D - Table depth) R =	+2.66"	Moulded Breadth (B)	
Tringer plate	.04			Standard Round of Beam = $\frac{B \times 12}{50}$	
Heating on exposed deck $T \left(\frac{L-S}{L} \right) =$	-	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	
Depth for Freeboard (D) =	16.54	If restricted by superstructures		Difference	Assumed standard
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$	Nil

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Forecastle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					135.00

Standard Height of Superstructure **6.0'**
" " R.Q.D. **3.833**
Deduction for complete superstructure **28.5**
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$
" " $\frac{E}{L} = 60.00$
Percentage from Table, Line A. **46.0**
(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 = **28.5 x .46 = -13.11**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{6}L$ from A.P.		4				4	
$\frac{2}{6}L$ "		2				2	
Amidships		4				4	
$\frac{2}{6}L$ from F.P.		2				2	
$\frac{1}{6}L$ "						4	
F.P.		1				1	
Total							

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
" " aft of " =

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

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **16.58**
Summer freeboard = **1.64**
Moulded draught (d) = **14.94**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **.708**

Depth Correction ... **2.66**
Deduction for superstructures ... **13.11**
Sheer correction ... **-**
Round of Beam correction ... **-**
Correction for Thickness of Deck amidships ... **-**
Other corrections, scantlings, etc. ... **-**

27.55
28.12
10.45
17.67

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

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

Tropical Fresh Water Freeboard ...
Fresh Water " " ...
Tropical " " ...
Winter " " ...
Winter North Atlantic " " ...