

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name SANMEX "SHEAF MEAD"	Official Number 169657	Nationality and Port of Registry BRITISH NEWCASTLE.	Gross Tonnage 7219	Date of Build 1943.	Port of Survey LONDON.
Moulded Dimensions: Length 416'-0" Breadth 56'-10 1/4" Depth 37'-4"					Date of Survey 7th 30th May & 3rd June '47
Moulded displacement at moulded draught = 85 per cent. of moulded depth (TOTAL DISPL.) 16,850 tons					Surveyor's Signature Thames/John
Coefficient of fineness for use with Tables .766					Particulars of Classification CLASS CONTEMPLATED.

Depth for Freeboard (D). Moulded depth ... 37'-4" Stringer plate ... 06' Sheathing on exposed deck NONE $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 37.39	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (37.39 - 27.85) \times 3 = +28.62$ (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) 56.89 Standard Round of Beam = $\frac{B \times 12}{50} = 13.65$ Ship's Round of Beam 14" = 14.01 <i>equal</i> Difference 0.36 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L}) = \frac{.36^2}{4} \times 1 = -.09$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poap 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 ...					

Flush deck

Standard Height of Superstructure **7.5**
R.Q.D. **42.80**
Deduction for complete superstructure
Percentage covered $\frac{S}{L} =$
Percentage from Table, Line A.
(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 = **0**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.77	1		51.77	54"	54	1		54
1/4 L from A.P. ...	23.04	4		92.16	24"	24	4		96
1/2 L " ...	5.695	2		11.39	5"	5	2		10
Amidships ...	-	4		-	0"	-	4		-
3/4 L from F.P. ...	11.39	2		22.78	15"	15	2		30
1/4 L " ...	46.08	4		184.32	46 1/2"	46.5	4		186.0
F.P. ...	103.55	1		103.55	101"	101	1		101
Total ...				465.97					477.0

Mean actual sheer aft = **> 1**
Mean standard sheer aft = **> 1**
Mean actual sheer forward = **> 1**
Mean standard sheer forward = **> 1**
Length of enclosed superstructure forward of amidships = **Flush deck**
aft of **Flush deck**
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{11.03}{18} \times .75 = -.46$
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **37.39**
Summer freeboard = **9.73**
Moulded draught (d) = **27.66**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.92 = 7"**
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 14257$
Tons per inch immersion at summer load water line
 $T = 48.7$
Deduction = $\frac{\Delta}{40T}$ inches
= **7.32**
= **7 1/4"**

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient

Depth Correction ...	28.62	-	
Deduction for superstructures ...	-	46	
Sheer correction ...	-	09	
Round of Beam correction ...	-	-	
Correction for Thickness of Deck amidships ...	-	-	
Other corrections, scantlings, etc. ...	28.62	55	+28.07
Summer Freeboard =	116.67		

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

Tropical Fresh Water Line above Centre of Disc	4 1/4"
Fresh Water Line	7 1/4"
Tropical Line	7 1/4"
Winter Line below	7 1/4"
Winter North Atlantic Line	-

Tropical Fresh Water Freeboard	9'-8 3/4"
Fresh Water	8'-6 1/2"
Tropical	9'-1 1/2"
Winter	9'-13 1/4"
Winter North Atlantic	10'-33 1/4"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

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

Ship's Name Date of Survey Port of Call Nature of Service Name of Master Name of Surveyor		Official Number Date of Construction Date of Last Survey Date of Last Alteration Date of Last Repair	
Length Breadth Depth Draught Tonnage		Freeboard Height of Mast Height of Funnel Height of Smokestack Height of Chimney	

Item	Particulars	Quantity	Value
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Trade of ship GENERAL CARGO
 Names of sister ships "TIELBANK", "LACONIA", "WILLOWBANK" etc.
 Builder's name and yard number BETHLEHEM FAIRFIELD SHIPYARD INC., BALTIMORE, Md.
 Owners SHEAF STEAM SHIPPING CO. LD.
 Fee £ 18-0-0



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