

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **SS. "SPRINGBANK"**
(ex "Samspelga")

Official Number **180550**

Nationality and Port of Registry **British Glasgow.**

Gross Tonnage **7248.**

Date of Build

Port of Survey **Hull**

Date of Survey **October / Nov 1947.**

Surveyor's Signature

Particulars of Classification **Class Contemplated**

Moulded Dimensions: Length **417.73'** Breadth **56.90'** Depth **37.33'**
To CENTRE OF RUDDER STOCK.

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

Coefficient of fineness for use with Tables **.768**

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	... 37.33	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	56.90'
Stringer plate06	(37.39-27.85)3 = +28.62"		Standard Round of Beam = $\frac{B \times 12}{50}$	13.65"
Sheathing on exposed deck	✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	✓	Ship's Round of Beam	14.08"
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures ✓		Difference	+1.43"
Depth for Freeboard (D) =	37.39			Restricted to	
				Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.43}{4} = .11"$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	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				

Standard Height of Superstructure **7.5'**

" " R.Q.D. **✓**

Deduction for complete superstructure **42.00"**

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ **Nil.**

" " $\frac{E}{L} =$

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 = **Nil.**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	51.77	1	51.77	55.0	55.00	1	55.00
$\frac{1}{2}L$ from A.P.	23.04	4	92.16	22.5	22.50	4	90.00
$\frac{2}{3}L$	5.695	2	11.39	4.5	4.50	2	9.00
Amidships	✓	4	✓	—	✓	4	✓
$\frac{2}{3}L$ from F.P.	11.39	2	22.78	11.5	11.50	2	23.00
$\frac{1}{2}L$	46.08	4	184.32	47.0	47.00	4	188.00
F.P.	103.55	1	103.55	105.0	105.00	1	105.00
Total			465.97				470.00

Mean actual sheer aft = **Deficient but 7.75"**

Mean standard sheer aft

Mean actual sheer forward = **Excess.**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Flush deck.**

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{4.03}{18} \times .75 = -.17"$

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.		Deduction for Fresh Water.		TABULAR FREEBOARD	
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line		corrected for Flush Deck (if required)	
Depth to Freeboard Deck = 37.39		$\Delta =$		Correction for coefficient	
Summer freeboard = 9.73		Tons per inch immersion at summer load water line			
Moulded draught (d) = 27.66		T =			
Deduction for Tropical freeboard and addition for		Deduction = $\frac{\Delta}{40 T}$ inches			
Winter freeboard = $\frac{d}{4}$ inches = 6.92 = 7'		= 7 1/4"			
Addition for Winter North Atlantic Freeboard (if required) =					

Summer Freeboard = **117.08"**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-				
Tropical Fresh Water Line above Centre of Disc	...	14.1"	Tropical Fresh Water Freeboard	8' 8 1/4"
Fresh Water Line	"	7 1/4"	Fresh Water	8' 6 1/2"
Tropical Line	"	7"	Tropical	9' 1 1/2"
Winter Line below	"	7"	Winter	9' 1 3/4"
Winter North Atlantic Line	"	...	Winter North Atlantic	10' 3 3/4"

As previously assigned by the American Bureau.

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.

Trade of ship

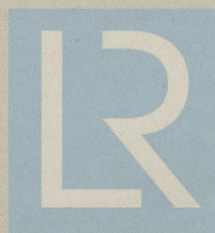
Names of sister ships *"SAM" ships.*

Builder's name and yard number *Bethlehem-Fairfield Ship. Inc. Baltimore USA. N: 2340.*

Owners *Bark Line Ltd.*

Fee £ *18 . 0 . 0*

MLD



© 2020

Lloyd's Register
Foundation