

PRELIMINARY

Index No. _____
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name SOTTERN E. BRAHEHOLM	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 410.0 ✓ Breadth 54.0 ✓ Depth 21.25 ✓					Date of Survey 2.12.50
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .79. ESTIMATED ✓					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 21.25	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 54.00 ✓
Stringer plate04	✓	Standard Round of Beam = $\frac{B \times 12}{50} = 12.96$ ✓
Sheathing on exposed deck	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam = NIL.
$T \left(\frac{L-S}{L} \right) =$ ✓	(27.33-21.25) 3. = - 18.12.	Difference 12.96 ✓
Depth for Freeboard (D) = 21.29 ✓	If restricted by superstructures ✓	Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{12.96}{4} \times .0048 = 1.02$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poep enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	262.63	262.63	84.8	✓	262.63
„ overhang aft					
„ overhang forward					
Fore enclosed	143.37	143.37			143.37
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft		$\frac{1}{2}$ DIFF.			
„ „ forward	4.00	2.00			2.00
Total	410.00	408.00			408.00

Standard Height of Superstructure	7.50
„ „ R.Q.D.	✓
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	100 ✓
„ „ $\frac{S_i}{L} =$	99.52
„ „ $\frac{E}{L} =$	
Percentage from Table, Line A. 8	99.40
(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 = 42 × .9940 = 41.75	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	51.00 ✓	1		51.00	71.00	82.76	1		82.76
$\frac{1}{8}L$ from A.P.	22.695 ✓	4		90.78		36.83	4		147.32
$\frac{2}{8}L$ „	5.61 ✓	2		11.22		9.10	2		18.20
Amidships	✓	4		✓		✓	4		✓
$\frac{3}{8}L$ from F.P.	11.22 ✓	2		22.44		16.69	2		33.38
$\frac{4}{8}L$ „	45.39 ✓	4		181.56		67.54	4		270.16
F.P.	102.00 ✓	1		102.00	140.00	151.76	1		151.76
Total				459.00	+11.76				703.58

Correction = Difference between sums of products $\left(.75 - \frac{S}{2L} \right) = \frac{244.58}{18} \times .25 = - 3.40$ ✓
If limited on account of midship superstructure.

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 „ =	

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
Depth to Freeboard Deck = **21.29** ✓
Summer freeboard = **1.46** ✓
Moulded draught (d) = **19.83** ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **4.96 = 5** ✓

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches $\frac{2}{4} = 5$ ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	✓	18.12 ✓
Deduction for superstructures	✓	41.75 ✓
Sheer correction	✓	3.40 ✓
Round of Beam correction	✓	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	.02	63.27

Summer Freeboard = **17.39** ✓SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, W₁, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line

Tropical Line

Winter Line

Winter North Atlantic Line

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

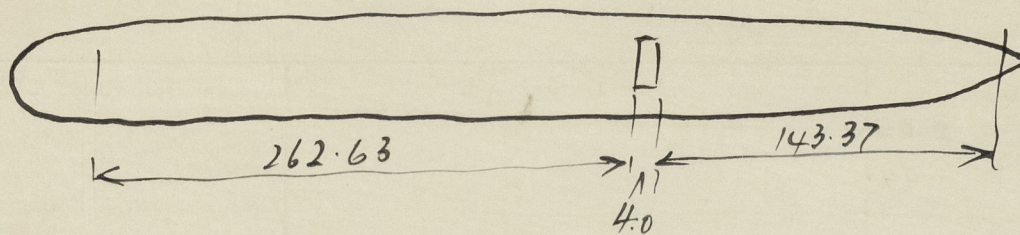
Winter North Atlantic

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.

$$\begin{array}{r} 21.25 \\ \times 85 \\ \hline 29.71 \end{array}$$

$$\begin{array}{r} .85 \\ .608 \\ \hline 242 \times 12 \end{array}$$

$$\begin{array}{r} 813 \\ = 029 \\ \hline 784 \end{array} \text{ say } 79$$



Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



© 2020

Lloyd's Register
Foundation