

draught desired = 13'-10" (assumed all seasons though not stated).
 As a full scantling ship having erections as shown on C11, standard
 sheer & camber. Equivalent depth = 15.94'

St. C.11 (Comp.).

Index. No. _____
 (For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name VIKING	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 350 Breadth 41.83 Depth 15.94 assumed					Date of Survey 18.1.44
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .68 lower end					Particulars of Classification A1 <i>Shelter deck with freeboard Stah channel service</i>

Depth for Freeboard (D). Moulded depth 15.94 Stringer plate04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 15.98	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth-D) R = $(23.33 - 15.98) 2.692 = 19.79$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL
---	---	--

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	8.50	8.50			8.50
.. overhang ...	99.50	49.75	8.0		49.75
R.Q.D. enclosed					
.. overhang					
Bridge enclosed <i>open</i> ...	136.00	68.00	8.0		68.00
.. overhang aft					
.. overhang forward					
Fore enclosed <i>open</i> ...	87.50	44.20	8.0		44.20
.. overhang					
Trunk aft					
.. forward					
Tonnage opening aft					
.. forward					
Total	331.50	170.45			170.45

Standard Height of Superstructure	7.00
.. .. R.Q.D.	1
Deduction for complete superstructure	38.67
Percentage covered $\frac{S}{L} =$	94.72
.. .. $\frac{S_1}{L} =$	48.70
.. .. $\frac{E}{L} =$	48.70
Percentage from Table, Line A.	30.89
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B.	34.89
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	30.89 + (68/70) * 4 = 34.78
Deduction =	38.67 * 34.78 = -13.45

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
P. ...		1					1		
L from A.P. ...		4					4		
L ..		2					2		
amidships ...		4					4		
L from F.P. ...		2					2		
L ..		4					4		
P. ...		1					1		
Total									

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

-1.00"
 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 = 15.98 Summer freeboard = 1.85 Moulded draught (d) = 14.13	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) 56.50 Correction for coefficient NIL Depth Correction Deduction for superstructures Sheer correction Round of Beam correction Correction for Thickness of Deck amidships Other corrections, scantlings, etc. - 34.24 - 34.24 Summer Freeboard = 22.26
---	---	--

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, **Wood, Steel, Deck** :- **1'-10 1/4"**

STR.	Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
	Fresh Water Line " "	Fresh Water " "
	Tropical Line " "	Tropical " "
WINTER.	Winter Line below " "	Winter " "
all seasons.	Winter North Atlantic Line " "	Winter North Atlantic " "

