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

Index. No. 39121
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
m/s "VATNAJÖKUL"		ICELANDIC REYKJAVIK		7 1947

Port of Survey Stockholm

Date of Survey WHILE BUILDING

Surveyor's Signature H. O. Allerton

Particulars of Classification +100A1

Moulded Dimensions : Length 56.140 m Breadth 9.600 m Depth 4.420 m
Freeboard " 56.280 m
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1422 (English) tons
Coefficient of fineness for use with Tables

Depth for Freeboard (D).
Moulded depth ... ...
Stringer plate ... ...
Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = 4429

Depth correction.
(a) Where D is greater than Table depth
(D—Table depth) R = + 80 mm
(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)
Standard Round of Beam = $\dfrac{B \times 12}{50}$ =
Ship's Round of Beam =
Difference
Restricted to
Correction = $\dfrac{\text{Diff}^{e}}{4} \times \left(1-\dfrac{S_1}{L}\right)$ = −1 mm

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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	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
„ „ R.Q.D.
Deduction for complete superstructure 622 mm
Percentage covered $\dfrac{S}{L}$ = 74.12
„ „ $\dfrac{S_1}{L}$ = } 72.54
„ „ $\dfrac{E}{L}$ =
Percentage from Table, ~~Line A.~~ Timber 83.02
~~(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 = 622 × ·8302 = −516 mm

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
⅙L from A.P. ...		4				4	
⅔L „ ...		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
⅙L „ ...		4				4	
F.P.		1				1	
Total ...							

Mean actual sheer aft = $\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ =

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(\cdot 75 - \dfrac{S}{2L}\right)$ = −49 mm
If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

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

Depth to Freeboard Deck = 5648
Summer freeboard = 1·270
Moulded draught (d) = 4·378
Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{48}$ inches = 91 = 3½"
Addition for Winter North Atlantic Freeboard (if required) = $\dfrac{d}{36}$ 122 = 4¾"

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 = $\dfrac{\Delta}{40T}$ inches
= 2½

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 520

			+	−	
Correction for coefficient	1·374 1·36	525			
Depth Correction			80		
Deduction for superstructures				516	52 B·
Sheer correction				49	20.6.47
Round of Beam correction				1	
Correction for ~~Thickness~~ HEIGHT 20 of Deck amidships ...		1219			
Other corrections, scantlings, etc. ...					
			1299	566	+733
Summer Freeboard = 1258					

SUMMER FREEBOARD amidships from ~~Centre of Disc to top of Deck Line, Wood, Steel Deck :—~~ raised quarter   Timber 4·2" (limited)

25.6.1947 Timber

Tropical Fresh Water Line above Centre of Disc ...	6¼"	Timber	Tropical Fresh Water Freeboard ...	3'-11½"
Fresh Water Line „ „	6¼"		Fresh Water	3'-11½"
Tropical Line „ „	3¾"		Tropical	4'-2" (limited)
Winter Line below „	1"		Winter	4'-6¾"
Winter North Atlantic Line „	5½"		Winter North Atlantic	4'-11½"

10m 3.37. T.   Summer above 3¾ 3¾

Trade of ship_____ **General**

Names of sister ships_____ —

Builder's name and yard number_____ **Lidingö Nya Warv & Werkstäder, Lidingö, Yard No. 5.**

Owners_____ **H/F Jöklar, Reykjavik, Iceland.**

Fee £_____