Amended Timber

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

For LONDON OFFICE ONLY
Received ....
Index No. ....
Govt. Copy ....
Owners C11 ....

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
BERNY		FINNISH MARIEHAMN	603.36	1950

Port of Survey ....
Date of Survey 7.56
Surveyor's Signature ....
Particulars of Classification + 100 A1

Moulded Dimensions: Length 53.935 ✓ Breadth 8.850 ✓ Depth 4.142 ✓
Freeboard Length ⅌ of R. Stock
Moulded displacement at moulded draught = 85 per cent. of moulded depth .... tons
(excluding bossing)
Coefficient of fineness for use with Tables .719 ✓

DEPTH FOR FREEBOARD (D).
Moulded depth ... ...
Stringer plate ... ...
Wood Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right) =$
Depth for Freeboard (D) = 4.151 ✓

DEPTH CORRECTION.
(a) Where D is greater than Table depth
(D—Table depth) R = + 63 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 = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = - 4 mm ✓

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 ...	19.545 ✓	19.415 ✓			19.415 ✓

Standard Height of Superstructure 1830 ✓
„ „ R.Q.D. 1069 ✓
Deduction for complete superstructure 602 ✓
Percentage covered $\dfrac{S}{L}$ = 36.24
„ „ $\dfrac{S_1}{L}$ = } 36.00 ✓
„ „ $\dfrac{E}{L}$ =
Percentage from Table, Line A. TIMBER 58.70 ✓
(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 = 602 × ·5870 = 353 ✓

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 ...	O	4	O	O	O	4	O
⅔L from F.P. ...		2				2	
⅙L „ ...		4				4	
F.P.		1				1	
Total ...							

Mean actual sheer aft $=$
Mean standard sheer aft

Mean actual sheer forward $=$
Mean standard sheer forward

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

+19 ✓ mm.

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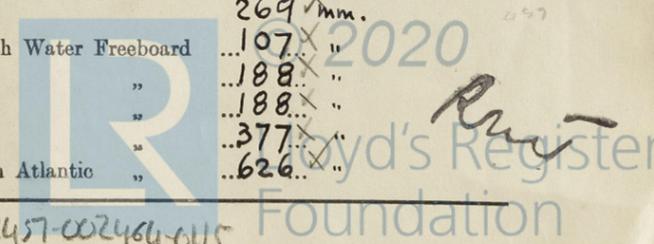If limited on account of midship superstructure.

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

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

Ft.
Depth to Freeboard Deck = 4.151 ✓
TIMBER Summer freeboard = .269 ✓
Moulded draught (d) = 3.882 ✓
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard ~~and addition for~~ $\dfrac{d}{48}$ = 81 mm.
Winter freeboard = $\dfrac{d}{36}$ mm. = 108 mm.
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 = $\dfrac{\Delta}{40\,T}$ inches
81 mm.

TABULAR FREEBOARD ~~corrected for Flush Deck~~ (if required) 489 ✓
Correction for coefficient 1.399/1.36 503 ✓

	+	−
Depth Correction	63 ✓	
Deduction for superstructures ...		353 ✓
Sheer correction ...	19 ✓	
Round of Beam correction ...		4 ✓
Correction for Thickness of Deck amidships ...		
Other corrections, ~~scantlings, etc.~~ TO CORRESPOND TO THE MAX. PERMISSIBLE TIMBER MOULDED DRAUGHT OF 3·882 m.	41 ✓	
	123 ✓	357 ✓	−234 ✓

Wm
15-8-56.

Summer Freeboard = 269 ✓

TIMBER SUMMER FREEBOARD amidships ~~from Centre of Disc~~ to top of Deck Line, ~~Wood,~~ Steel, Deck :— 269 ✓ mm.

28.8.56

			TIMBER		
TIMBER Tropical Fresh Water Line above Centre of Disc	.392 mm	TIMBER Tropical Fresh Water Freeboard	.107 ✓
Fresh Water Line „ „	.311 ✓	Fresh Water „	.188 ✓
Tropical Line „ „	.311 ✓	Tropical „	.188 ✓
Winter Line ABOVE „	.122 ✓	Winter „	.377 ✓
Winter North Atlantic Line BELOW „	.127 ✓	Winter North Atlantic „	.626 ✓
SUMMER LINE ABOVE „	230 ✓		

002457-002464-0115

Berry.

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.

$$\text{Timber draught} = 3.652 \times \frac{3.923}{3.691}$$

$$= 3.882$$

$$\frac{3652}{3691}$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____ : _____ : _____

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)