

AMENDED COMPUTATION ON ACCOUNT OF
REMOVAL OF WOOD SHEATHING FROM FBD. DK. } Glasgow
Kpt. 81214 3/12/53

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 "GUINNESS"	Official Number 162577	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 1151	Date of Build 1931-5	Port of Survey
Moulded Dimensions: Length 208.29 Breadth 34.25 Depth 19.0					Date of Survey 9th December, 1953.
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 2420 tons (excluding bossing)					Particulars of Classification +100 A1.
Coefficient of fineness for use with Tables .735					with freeboard.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 19.0	(a) Where D is greater than Table depth (D-Table depth) R = (19.04-13.89)1.602	Moulded Breadth (B) 34.25
Stringer plate04	+8.25	Standard Round of Beam = $\frac{B \times 12}{50} =$ 8.22
Wood Sheathing on exposed deck	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Ship's Round of Beam = 8.50
$T \left(\frac{L-S}{L} \right) =$		Difference = .28
Depth for Freeboard (D) = 19.04	If restricted by superstructures ✓	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.28}{4} (.8635) = .06$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure 6.0
" overhang						" " R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure 26.83
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$ 13.65
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A. 6.82
Fore enclosed Equiv.	28.43	28.43	7.0	✓	28.43	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B. ✓
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required) ✓
Tonnage opening aft						Deduction = 26.83 x .0682 = -1.83
" " forward						
Total	28.43	28.43			28.43	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P.	30.83	1		36.00	36.00	1	36.00	Mean actual sheer aft
$\frac{1}{8}$ L from A.P.		4		15.64	15.64	4	62.56	Mean standard sheer aft =
$\frac{3}{8}$ L "		2		3.91	3.91	2	7.82	Mean actual sheer forward
Amidships	○	4	○	○	○	4	○	Mean standard sheer forward =
$\frac{3}{8}$ L from F.P.		2		7.17	7.17	2	14.34	Length of enclosed superstructure forward of amidships =
$\frac{1}{8}$ L "		4		28.67	28.67	4	114.68	" " aft of " =
F.P.		1		66.00	66.00	1	66.00	
Total			277.47				301.40	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{23.93}{18} (.75 - .0682) = -.91$

If limited on account of midship superstructure. **YES - NIL.**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. **✓**

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

Depth to Freeboard Deck = **19.04**
Summer freeboard = **3.375**
Moulded draught (d) = **15.665**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **3.92 = 4"**

Addition for Winter North Atlantic Freeboard (if required) =

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 = $\frac{\Delta}{40 T}$ inches = **4"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction **8.25**
Deduction for superstructures **-1.83**
Sheer correction **-**
Round of Beam correction **.06**
Correction for Thickness of Deck amidships **-**
Other corrections, scantlings, etc. **8.64**

	+	-
Depth Correction	8.25	
Deduction for superstructures		1.83
Sheer correction		
Round of Beam correction		.06
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.	8.64	
	16.89	1.89

Summer Freeboard = **40.50**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc **8"**
Fresh Water Line " " **4"**
Tropical Line " " **4"**
Winter Line below " " **4"**
Winter North Atlantic Line " " **6"**

Tropical Fresh Water Freeboard **3'-4 1/2"**
Fresh Water " " **2'-8 1/2"**
Tropical " " **3'-0 1/2"**
Winter " " **3'-0 1/2"**
Winter North Atlantic " " **3'-6 1/2"**