Rpt. C.11 (Comp.).

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

Index No. _____
(For London Office only.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
TURNIA				

Moulded Dimensions: Length $54.330'$ Breadth 9.143 Depth 4.115

Moulded displacement at moulded draught = 85 per cent. of moulded depth 1525 tons

Coefficient of fineness for use with Tables $.870$

Port of Survey _____

Date of Survey $20.11.47$

Surveyor's Signature _____

Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth 4.115

Stringer plate ... ... —

Sheathing on exposed deck

$T\left(\dfrac{L-S}{L}\right) =$ —

Depth for Freeboard (D) = 4.115

DEPTH CORRECTION.

(a) Where D is greater than Table depth
$(D - \text{Table depth})\ R = $ $\dfrac{8.33(4.115 - 3.622)}{.493} \times 13.719 = +56$

(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) $9.143 M$

Standard Round of Beam = $\dfrac{B \times 12}{50} = 183$

Ship's Round of Beam = Nil

Difference

Restricted to

Correction = $\dfrac{\text{Diff}^{e}}{4} \times \left(1 - \dfrac{S_1}{L}\right) = \dfrac{183}{4} \times .6762 = 31$

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	11650	11.650	2380		11.650
„ overhang aft ...			MIN		
„ overhang forward ...					
F'cle enclosed	5.943	5.943	2100		5.943
„ overhang					
Trunk aft					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total	17.593	17.593			17.593

Standard Height of Superstructure 1.83

„ „ R.Q.D. —

Deduction for complete superstructure 606

Percentage covered $\dfrac{S}{L} =$

„ „ $\dfrac{S_1}{L} =$ } 32.38

„ „ $\dfrac{E}{L} =$

Percentage from Table, Line A. Tanker 23.38
(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 = $606 \times .2338 = -142$

SHEER CORRECTION.

Station	Standard Ordinate	SM	Product	Actual Ordinate	Effective Ordinate	SM	Product
A.P.	707	1	707	0	0	1	0
⅙L from A.P. ...	314	4	1256	0	0	4	0
⅔L „	78.5	2	157	0	0	2	0
Amidships ...	—	4	—	—	—	4	—
⅔L from F.P. ...	157	2	314	0	0	2	0
⅙L „	628	4	2512	0	0	4	0
F.P.	1413	1	1413	0	0	1	0
Total ...			6359				0

Mean actual sheer aft / Mean standard sheer aft = < 1

Mean actual sheer forward / Mean standard sheer forward = < 1

Length of enclosed superstructure / L forward of amidships = } Tanker with
„ „ aft of „ = } sufficient sheer

Correction = $\dfrac{\text{Difference between sums of products}}{18} \left(.75 - \dfrac{S}{2L}\right) = \dfrac{6359}{18}\left(.75 - .1619\right) = +208$ m p m
$.5881$
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 Freebroad.

Ft.

Depth to Freeboard Deck =

Summer freeboard =

Moulded draught (d) = _____

Deduction for Tropical freeboard and addition for

Winter freeboard = $\dfrac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line
$\triangle$

Tons per inch immersion at summer load water line
$T =$

Deduction = $\dfrac{\triangle}{40\,T}$ inches

TABULAR FREEBOARD corrected for Flush Deck (if required)

$\dfrac{.87 + .61}{1.36} = 1.55/1.36$

$\dfrac{494}{563}$

Correction for coefficient

	+	−
Depth Correction	56	
Deduction for superstructures		142
Sheer correction	208	
Round of Beam correction	31	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	295	142
	284	142	+142

with a summer loaded
draught 9' 11" - 2'4"

Summer Freeboard = 705 7/6

158

Salt water

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

Tropical Fresh Water Line	above Centre of Disc	Tropical Fresh Water Freeboard ... ...
Fresh Water Line	„ „	Fresh Water „ ... ...
Tropical Line	„ „	Tropical „ ... ...
Winter Line	below „ „	Winter „ ... ...
Winter North Atlantic Line „	„ „	Winter North Atlantic „ ... ...

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