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

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

(Type of Superstructures.)

Port of Survey _____

Date of Survey _____

Name of Surveyor _____

Particulars of Classification _____

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

ensions: Length _____ Breadth _____ Depth 26·75

lacement at moulded draught = 85 per cent. of moulded depth _____ tons

fineness for use with Tables .785

h for Freeboard (D)

... ... 26·75

... ... ·04

sed deck

for Freeboard (D) = 26·79

Depth correction

(a) Where D is greater than Table depth
(D—Table depth) R = (26·79 - 25·64) 2·958 = 3·40

(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 = $\frac{B \times 12}{50}$ =

Ship's Round of Beam =

Difference

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1 - \frac{S_1}{L}\right)$ = N.L

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
	C.S.S			

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure 40·97

Percentage covered $\frac{S}{L}$ = } 100
" " $\frac{S_1}{L}$ = }
" " $\frac{E}{L}$ = }

Percentage from Table, Line A.
(corrected for absence of forecastle (if required)) 100

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = - 40·97

SHEER CORRECTION.

Actual Rl of SS. = 7·92
Standard " = 7·34
·58 = 7"

Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
	1		59 + 7	66·00	1	66·00
	4			29·4	4	117·60
	2			7·26	2	15·52
	4				4	
	2			12·98	2	25·96
	4			52·50	4	210·00
	1		111 + 7	118·00	1	118·00
		436·05				553·08

Mean actual sheer aft / Mean standard sheer aft = Excess

Mean actual sheer forward / Mean standard sheer forward = Excess

Length of enclosed superstructure / L forward of amidships = 7 SS

" " aft of " =

Difference between sums of products / 18 $\left(\cdot 75 - \frac{S}{2L}\right)$ = 117·03 / 18 (·75 - ·50) = -1·62

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

account of midship superstructure.

Tropical Freeboard.
Winter and Winter North eeboard.

	Ft.
o Freeboard Deck =	26·79
freeboard =	2·73
ulded draught (d) =	24·06

ropical freeboard and addition for oard = $\frac{d}{4}$ inches =

nter North Atlantic Freeboard (if

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 = $\frac{\Delta}{40\,T}$ inches

=

TABULAR FREEBOARD corrected for Flush Deck (if required) 66·75

Correction for coefficient ·785 + ·68 / 1·36 = 1·465 71·90

	+ 1·36	−
Depth Correction	3·40	-
Deduction for superstructures	-	40·97
Sheer correction	-	1·62
Round of Beam correction	-	-
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc.	-	-
	3·40	42·59

- 39·19

Summer Freeboard = 32·71

UMMER 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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