

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. \_\_\_\_\_  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

C.S.S. No 7.0.

Port of Survey \_\_\_\_\_

(Type of Superstructures.)

Date of Survey 30-10-31

Ship's Name

ANGOLA

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

1912

Name of Surveyor \_\_\_\_\_

ded Dimensions: Length 440 Breadth 55.5 Depth 37.0

ded displacement at moulded draught = 85 per cent. of moulded depth

tons

cient of fineness for use with Tables

Particulars of Classification

100 A1

Shelter deck.  
with freeboard

Depth for Freeboard (D)

depth ... 37.00

plate ... 60 ... 1.05

g on exposed deck

$\frac{L-S}{L} = .21(1-.3149) = .14$

Depth for Freeboard (D) = 37.19

Depth correction

(a) Where D is greater than Table depth

$(D - \text{Table depth}) R = (37.19 - 29.33) 3.0 = +23.58$

(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)

55.5

Standard Round of Beam =  $\frac{B \times 12}{50} = 13.32$

Ship's Round of Beam = 13.87

Difference

.55

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.55}{4} \times .6851 = -.09$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Pop enclosed ...	55.02	55.02	7.5	-	55.02
" overhang ...					
Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Deck enclosed ...	83.50	83.50	7.5	-	83.50
" overhang ..					
Trunk aft ...					
" forward ...					
Ponnage opening aft ...					
" " forward					
Total ...	138.52	138.52			138.52

Standard Height of Superstructure

7.5

" " R.Q.D.

Deduction for complete superstructure

42

Percentage covered  $\frac{S}{L} = 31.49$

" "  $\frac{S_1}{L} = 31.49$

" "  $\frac{E}{L} = 31.49$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

16.26

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =  $42 \times .1626 = -6.83$

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..	54.0	1	54.00	33	33	1	33.00
from A.P. ...	24.03	4	96.12	8.29	8.29	4	33.16
" ...	5.94	2	11.88	2.07	2.07	2	4.14
amidships ...	-	4	-	-	-	4	-
from F.P. ...	11.88	2	23.76	8.89	8.89	2	17.78
" ...	48.06	4	192.24	35.55	35.55	4	142.20
P. ...	108.0	1	108.00	99	99	1	99.00
Total ...			486.00				329.28

Mean actual sheer aft =  
Mean standard sheer aft =

Deficient

Mean actual sheer forward =  
Mean standard sheer forward =

do.

Length of enclosed superstructure forward of amidships =

" " aft of " =

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

$\frac{156.72}{18} (.75 - .1574) = +5.16$

If limited on account of midship superstructure.

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 = 37.26

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

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

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

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

84.0

	+	-
Depth Correction ...	23.58	-
Deduction for superstructures ...	-	6.83
Sheer correction ...	5.16	-
Round of Beam correction ...	-	.09
Correction for Thickness of Deck amidships ...	.84	-
Other corrections, scantlings, etc. ...	x	

Summer Freeboard =

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

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

Tropical Fresh Water Freeboard ...	...
Fresh Water " " ...	...
Tropical " " ...	...
Winter " " ...	...
Winter North Atlantic " " ...	...

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