

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

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

recastle? *Yes.*  
 Bulwarks? *Yes.*  
 after end? *Yes.*  
 er? *Yes.*

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
*C.S.S. No 7.0.*

(Type of Superstructures.)

Ship's Name <b>ANGOLA</b>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build <b>1912</b>
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Port of Survey \_\_\_\_\_  
 Date of Survey **30-10-31**  
 Name of Surveyor \_\_\_\_\_  
 Particulars of Classification **100 A1  
Shelter deck.  
with freeboard**

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 \_\_\_\_\_

<b>Depth for Freeboard (D)</b> depth ... .. <b>37.00</b> plate <b>.60</b> ... .. <b>.15</b> g on exposed deck $\frac{L-S}{L} = .21(1-.3147) = .14$ Depth for Freeboard (D) = <b>37.19</b>	<b>Depth correction</b> (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 <input checked="" type="checkbox"/>	<b>Round of Beam correction</b> Moulded Breadth (B) <b>55.5</b> Standard Round of Beam = $\frac{B \times 12}{50} = 13.32$ Ship's Round of Beam = <b>13.87</b> Difference <b>.55</b> Restricted to _____ Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.55}{4} \times .6851 = -.09$
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### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
op enclosed ...	55.02	55.02	7.5	-	55.02
overhang ...					
Q.D. enclosed ...					
overhang ...					
ridge enclosed ...					
overhang aft ...					
overhang forward ...					
ele 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. **16.26**  
 (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 =  $42 \times .1626 = -6.83$

### 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
A.P. ...	108.0	1		108.00	99	99	1		99.00
Total ...				486.00					329.28

Mean actual sheer aft = *Deficient*  
 Mean standard sheer aft = \_\_\_\_\_  
 Mean actual sheer forward = *do.*  
 Mean standard sheer forward = \_\_\_\_\_  
 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 1/2 ins. per 100 ft. \_\_\_\_\_

<b>Deduction for Tropical Freeboard.</b> Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <b>37.26</b> 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) = _____	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ _____ Tons per inch immersion at summer load water line $T =$ _____ Deduction = $\frac{\Delta}{40T}$ inches = _____	<b>TABULAR FREEBOARD corrected for Flush Deck (if required)</b> Correction for coefficient <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction ...</td> <td>23.58</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>6.83</td> </tr> <tr> <td>Sheer correction ...</td> <td>5.16</td> <td>-</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>.09</td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td>.84</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td>x</td> <td></td> </tr> </tbody> </table> Summer Freeboard = _____		+	-	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	
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Correction for Thickness of Deck amidships ...	.84	-																					
Other corrections, scantlings, etc. ...	x																						

### 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 " " ...

