

As a Cargo Steamer  
having actual sheet & erection  
**Lloyd's Register of Shipping.**  
**SURVEYS FOR FREEBOARD.**

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having _____					Date of Survey <u>1</u> <u>10</u> <u>34</u>
(Type of Superstructures.) _____					Name of Surveyor _____
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification _____
<u>Odense</u> <u>N. 799.</u>					
Moulded Dimensions: Length <u>475</u> Breadth <u>63 75</u> Depth <u>34.83</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>80</u>					

<b>Depth for Freeboard (D)</b>	<b>Depth correction</b>	<b>Round of Beam correction</b>
Moulded depth ... .. <u>34.83</u>	(a) Where D is greater than Table depth (D - Table depth) R = $(34.83 - 31.67) \times 300$ = <u>+ 9.66"</u> ✓	Moulded Breadth (B) <u>63.75</u>
Stringer plate ... .. <u>.06</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{63.75 \times 12}{50} = \underline{15.30}$
Weathering on exposed deck $T \left( \frac{L-S}{L} \right) =$ _____	If restricted by superstructures _____	Ship's Round of Beam = _____
Depth for Freeboard (D) = <u>34.89</u> ✓		Difference <u>.075 excess</u>
		Restricted to _____
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.075}{4} \times (.6458) = \underline{-.01}$ ✓

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	<u>96.21</u>	<u>96.21</u>	<u>7.67</u>	✓	<u>96.21</u>
" overhang ... ..	<u>3.12</u>	<u>1.56</u>			<u>1.56</u>
R.Q.D. enclosed ... ..					
" overhang ... ..					
Bridge enclosed ... ..	<u>36.75</u>	<u>36.75</u>	<u>7.50</u>	✓	<u>36.75</u>
" overhang aft ... ..					
" overhang forward ... ..					
F'cle enclosed ... ..	<u>33.70</u>	<u>33.70</u>	<u>7.50</u>	✓	<u>33.70</u>
" overhang ... ..					
Trunk aft ... ..					
" forward ... ..					
Tonnage opening aft ... ..					
" " forward ... ..					
Total ... ..	<u>169.78</u>	<u>168.23</u>			<u>168.23</u>

Standard Height of Superstructure <u>7.50</u>
" " R.Q.D. <u>✓</u>
Deduction for complete superstructure <u>42.00</u>
Percentage covered $\frac{S}{L} = \frac{35.74}{L} = \underline{35.42}$
" " $\frac{S_1}{L} = \underline{35.42}$
" " $\frac{E}{L} = \underline{35.42}$ ✓
Percentage from Table, Line A. <u>19.61%</u> ✓
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. <u>23.61%</u> ✓
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required) $19.61 + \left( \frac{36.75}{95.00} \times 4.00 \right) = \underline{21.16\%}$ ✓
Deduction = $42 \times .2116 = \underline{-8.89"$ ✓

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
P. ... ..	<u>57.50</u>	1		<u>45.66</u>		1	
from A.P. ... ..		4		<u>9.86</u>		4	
" " ... ..		2		<u>0</u>		2	
amidships ... ..		4		<u>✓</u>		4	
from F.P. ... ..		2		<u>0</u>		2	
" " ... ..		4		<u>29.92</u>		4	
P. ... ..		1		<u>98.04</u>		1	
Total ... ..			<u>517.50</u>				<u>302.74</u>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{214.73}{18} (.75 - .1787) = \underline{+6.82"} \checkmark$

If limited on account of midship superstructure. If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b>	<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</b> corrected for Flush Deck (if required) Correction for coefficient $\frac{148}{136}$ Depth Correction ... .. <u>9.66</u> ✓ Deduction for superstructures ... .. <u>-8.89</u> ✓ Sheer correction ... .. <u>6.82</u> ✓ Round of Beam correction ... .. <u>-.01</u> ✓ Correction for Thickness of Deck amidships ... .. <u>-</u> ✓ Other corrections, scantlings, etc. ... .. <u>-</u> ✓ Summer Freeboard = <u>110.74</u> ✓
Depth to Freeboard Deck = <u>34.89</u> ✓ Summer freeboard = <u>9.23</u> ✓ Moulded draught (d) = <u>25.66</u> ✓		
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____		

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, <del>Wood</del> , 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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