

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 34489
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having F.S. with Fresh & Bridge Port of Survey _____

(Type of Superstructures.) _____ Date of Survey 8.2.34

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>Naksohrop</u>				

Name of Surveyor _____

Particulars of Classification _____

Moulded Dimensions: Length 465 Breadth 64 Depth 40

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

Coefficient of fineness for use with Tables _____

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>40.00</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>7.27</u>	Moulded Breadth (B) _____
Stringer plate <u>0.05</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Heating on exposed deck $T \left(\frac{L-S}{L} \right) =$ <u>✓</u>	If restricted by superstructures _____	Ship's Round of Beam = <u>Standard</u>
Depth for Freeboard (D) = <u>40.05</u>		Difference _____
		Restricted to _____
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil</u>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang	<u>226.0</u>	<u>221.0</u>			<u>226</u>
Bridge enclosed	<u>225.26</u>	<u>225.26</u>	<u>8-3</u>		<u>225.26</u>
„ overhang aft					
„ overhang forward	<u>69</u>	<u>34</u>			<u>34</u>
F'cle enclosed	<u>72.27</u>	<u>72.27</u>			<u>72.27</u>
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	<u>298.27</u>	<u>298.27</u>			<u>298.27</u>

Standard Height of Superstructure 7.50

„ „ R.Q.D. _____

Deduction for complete superstructure 42.00

Percentage covered $\frac{S}{L} =$ 64.15%

„ „ $\frac{S_1}{L} =$ 64.45%

„ „ $\frac{E}{L} =$ 64.45%

Percentage from Table, Line A. _____

(corrected for absence of forecastle (if required)) _____

Percentage from Table, Line B. _____

(corrected for absence of forecastle (if required)) 53.05%

Interpolation for bridge less than 2L (if required) 28.21

Deduction = 42 x .5288 = -22.21

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{8}L$ from A.P.		4					4		
$\frac{2}{8}L$ „		2					2		
Amidships		4					4		
$\frac{2}{8}L$ from F.P.		2					2		
$\frac{1}{8}L$ „		4					4		
F.P.		1					1		
Total									

Mean actual sheer aft = _____

Mean standard sheer aft = _____

Mean actual sheer forward = _____

Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____

„ „ aft of „ = _____

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

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = <u>40.05</u> Δ = _____	Tons per inch immersion at summer load water line	
Summer freeboard = <u>8.39</u>	T = _____	
Moulded draught (d) = <u>31.66</u>	Deduction = $\frac{\Delta}{40T}$ inches = _____	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____		
Addition for Winter North Atlantic Freeboard (if required) = _____		

	+	-
Depth Correction	<u>27.15</u>	<u>28</u>
Deduction for superstructures	<u>-22.21</u>	
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	<u>27.15</u>	<u>22.21</u>
Summer Freeboard =	<u>100</u>	

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 „ „

Summer Moulded Draught = 31-8

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