

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <u>H K W. 1373.</u>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>461'</u> Breadth <u>59'</u> Depth <u>34.83'</u>					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <u>.74.</u> <u>Assumed</u>					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <u>34.83</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>(34.91-30.73) 3 = + 12.54"</u>	Moulded Breadth (B)
Stringer plate <u>.08</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = <u>STANDARD</u>
Depth for Freeboard (D) = <u>34.91</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poop enclosed					<u>7.50</u> ✓
„ overhang					„ „ R.Q.D. _____
R.Q.D. enclosed					Deduction for complete superstructure <u>42.00</u> ✓
„ overhang					Percentage covered $\frac{S}{L} =$
Bridge enclosed					„ „ $\frac{S_i}{L} =$ } <u>40% approx</u>
„ overhang aft					„ „ $\frac{E}{L} =$
„ overhang forward					Percentage from Table, Line A. TANKER <u>31.00</u> ✓
F'cle enclosed					(corrected for absence of forecastle (if required))
„ overhang					Percentage from Table, Line B.
Trunk aft					(corrected for absence of forecastle (if required))
„ forward					Interpolation for bridge less than 2L (if required)
Tonnage opening aft					Deduction = <u>42 x .31 = 13.02</u> ✓
„ „ forward					
Total					

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{4}L$ „		2				2	
Amidships		4				4	
$\frac{3}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ „		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 = _____
L

„ „ 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 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>34.91</u> Ft. Summer freeboard = <u>6.75</u> Moulded draught (d) = <u>28.16</u> 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) <u>77.95</u> ✓ Correction for coefficient $\frac{.68 + .74}{1.36} = 1.42 / 1.36$ <u>81.40</u> ✓ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 10%; text-align: center;">+</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 25%;"></td> </tr> <tr> <td>Depth Correction</td> <td style="text-align: center;">12.54</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">13.02</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Sheer correction</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">12.54</td> <td style="text-align: center;">13.02</td> <td style="text-align: center;">= 0.48</td> </tr> <tr> <td></td> <td colspan="3" style="text-align: right;">Summer Freeboard = <u>80.92</u></td> </tr> </table>		+	-		Depth Correction	12.54	✓		Deduction for superstructures	✓	13.02	-	Sheer correction	✓	✓		Round of Beam correction	✓	✓		Correction for Thickness of Deck amidships	✓	✓		Other corrections, scantlings, etc.	✓	✓			12.54	13.02	= 0.48		Summer Freeboard = <u>80.92</u>		
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

<u>6.25</u> <u>59</u> = <u>.114</u>	<table style="width: 100%;"> <tr> <td>Tropical Fresh Water Line above Centre of Disc</td> <td>Tropical Fresh Water Freeboard</td> </tr> <tr> <td>Fresh Water Line „ „</td> <td>Fresh Water „ „</td> </tr> <tr> <td>Tropical Line „ „</td> <td>Tropical „ „</td> </tr> <tr> <td>Winter Line below „ „</td> <td>Winter „ „</td> </tr> <tr> <td>Winter North Atlantic Line „ „</td> <td>Winter North Atlantic „ „</td> </tr> </table>	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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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

46.5
39.5
9.5

151.5
46.1

LD

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation