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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 32155
 (For London Office only).

Ship's Name "DEIDO"	Official Number 160370	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage 1928	Date of Build 3 mo.	Port of Survey
Moulded Dimensions: Length 355' 0" Breadth 49' 0" Depth 33' 5" ✓					Date of Survey 24-6-41
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .801 (estimated)					Particulars of Classification +100 A1 with freeboard

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 33.42	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = (33.42 - 23.67) \times 2.731 = +26.74"$	Moulded Breadth (B) 49.00'
Stringer plate 50" ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 11.71"$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 12.25"
Depth for Freeboard (D) = 33.46		Difference .49"
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.49 \times 78.32}{4 \times 78.32} = -.10"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	37.0'	37.00	7.5'	✓	37.00	Standard Height of Superstructure 7.05' ✓
" overhang ...						" " R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 39.00"
" overhang ...						Percentage covered $\frac{S}{L} = 21.97$ ✓
Bridge enclosed ...						" $\frac{S_1}{L} = 21.68$ ✓
" overhang aft ...						" $\frac{E}{L} = 21.68$ ✓
" overhang forward ...						Percentage from Table, Line A. 10.84
Forecastle enclosed equi ...	38.90	38.90	7.5'	✓	38.90	(corrected for absence of forecastle (if required)) ✓
" overhang ...	2.10	1.05			1.05	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 = 39.00 x .1084 = -4.23"
" forward ...						
Total ...	78.00	76.95			76.95	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	45.50	1		45.50	36.00	36.00	1		36.00	Mean actual sheer aft = Deficient
$\frac{1}{4}L$ from A.P. ...	20.25	4		81.00	15.21	15.21	4		60.84	Mean actual sheer forward = Deficient
$\frac{2}{8}L$ " ...	5.00	2		10.00	3.80	3.80	2		7.60	Mean standard sheer forward
Amidships ...	-	4		-	-	-	4		-	Length of enclosed superstructure forward of amidships =
$\frac{3}{8}L$ from F.P. ...	10.00	2		20.00	6.91	6.91	2		13.82	" " aft of " = Nie
$\frac{1}{4}L$ " ...	40.50	4		162.00	27.66	27.66	4		110.60	
F.P. ...	91.00	1		91.00	66.00	66.00	1		66.00	
Total ...				409.50					294.86	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{114.64}{18} (.75 - .1098) = +4.08"$
 If limited on account of midship superstructure. **6402** 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 = 33.46 ✓ Summer freeboard = 9.94 ✓ Moulded draught (d) = 23.52 ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.88 = 6" ✓ 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 = $\frac{\Delta}{40T}$ inches $6\frac{1}{2}"$ ✓	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient .801 + .68 = 1.481 / 1.36 <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>26.74</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>4.23</td> </tr> <tr> <td>Sheer correction ...</td> <td>4.08</td> <td>-</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>.10</td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. to correspond to a summer moulded draught of 23'-6 1/4"</td> <td>29.66</td> <td>-</td> </tr> <tr> <td></td> <td>60.48</td> <td>4.33</td> </tr> <tr> <td>Summer Freeboard =</td> <td>119.25</td> <td></td> </tr> </table>		+	-	Depth Correction ...	26.74	-	Deduction for superstructures ...	-	4.23	Sheer correction ...	4.08	-	Round of Beam correction ...	-	.10	Correction for Thickness of Deck amidships ...	-	-	Other corrections, scantlings, etc. to correspond to a summer moulded draught of 23'-6 1/4"	29.66	-		60.48	4.33	Summer Freeboard =	119.25		57.95 63.10 26.6.41
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	12 1/2" ✓
Fresh Water Line " " ...	6 1/2" ✓
Tropical Line " " ...	6" ✓
Winter Line below " " ...	6" ✓
Winter North Atlantic Line " " ...	6" ✓

Tropical Fresh Water Freeboard ...	8-10 3/4" ✓
Fresh Water " " ...	9-4 3/4" ✓
Tropical " " ...	9-5 1/4" ✓
Winter " " ...	10-5 1/4" ✓
Winter North Atlantic " " ...	10-5 1/4" ✓

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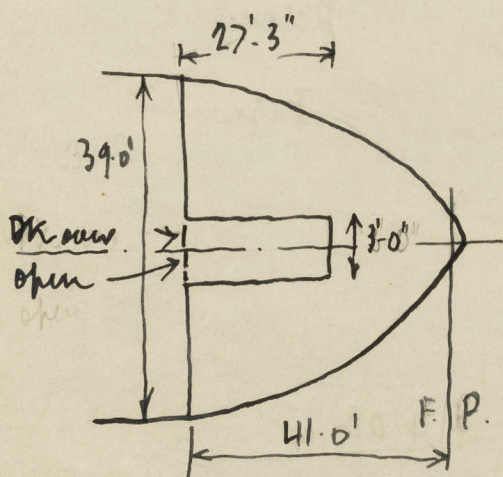
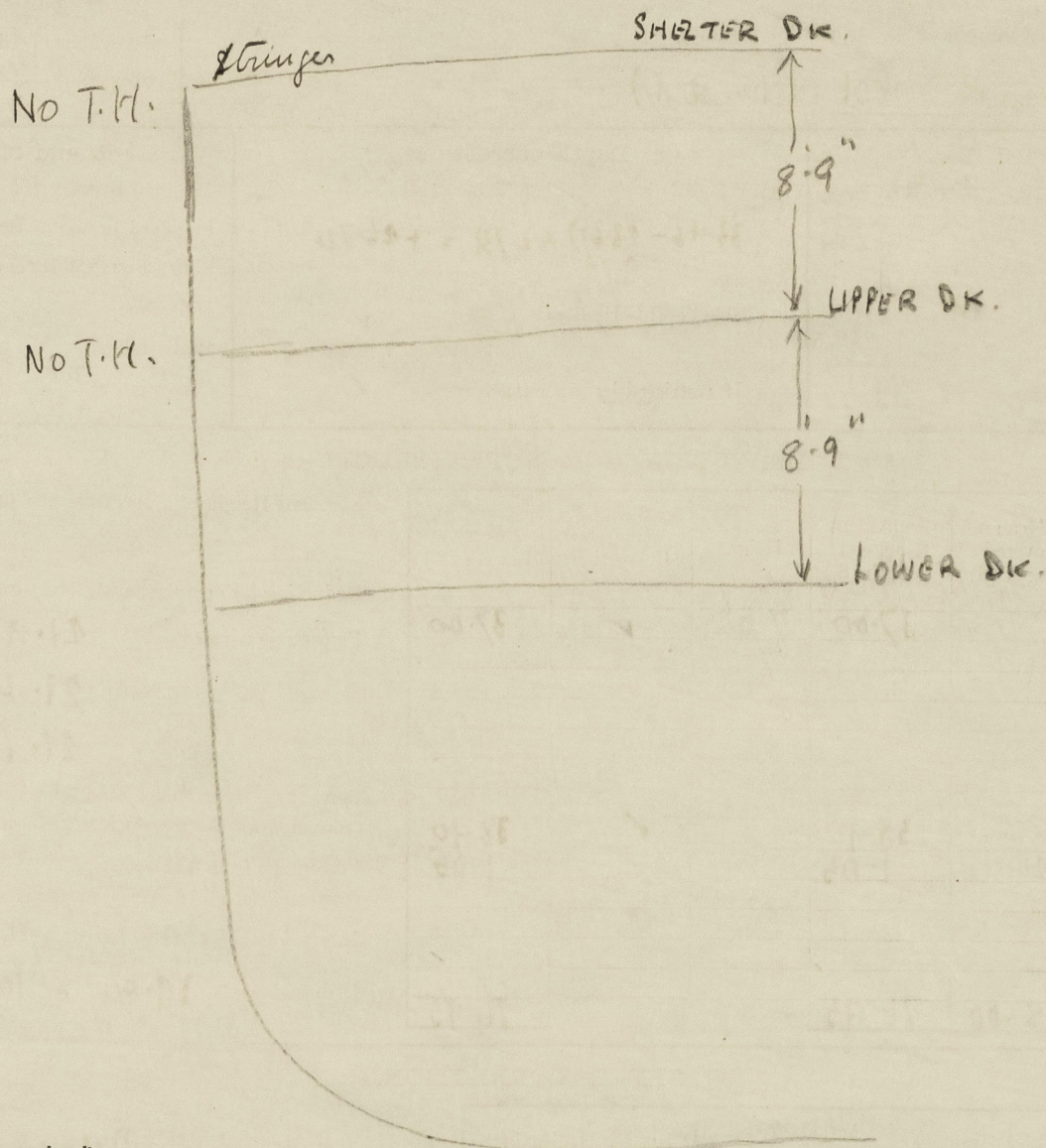
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15/8/41

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.

Dimensions:- 355'-0" x 49'-0" x 33'-5" MID TO SHELTER DK. ✓
24'-8" " " UPPER DK.



Forecastle
equiv bulk head.

$$\frac{27.25 \times 3.0}{39.0} = 2.10'' = \text{equiv overhig}$$

$$\frac{41.00}{38.90} = \text{equiv in down length}$$

Trade of ship.....

Names of sister ships.....

Builder's name and yard number.....

Owners.....

Fee £.....



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