

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

13 FEB 1952

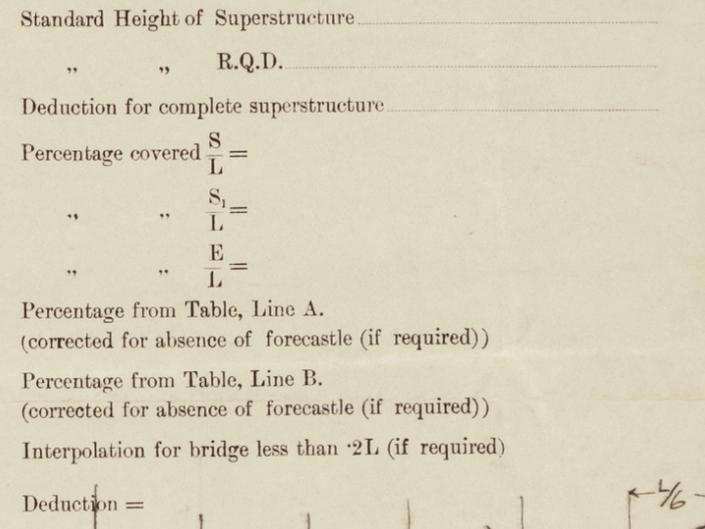
Denny 1460 43125

Ship's Name Denny 1461	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage ✓	Date of Build ✓	Port of Survey Glasgow
Moulded Dimensions: Length 460'-0" Breadth 63'-0" Depth 30'-9" + 40'-3"					Date of Survey ✓
Moulded displacement at moulded draught = 85 per cent. of moulded depth 15,100 tons S.W.					Surveyor's Signature W. Malcolm
Coefficient of fineness for use with Tables					Particulars of Classification 100A1 with freeboard (contemplated)

<p>Depth for Freeboard (D).</p> <p>Moulded depth ... 30'-9"</p> <p>Stringer plate37"</p> <p>Sheathing on exposed deck None</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) =</p>	<p>Depth correction.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R =</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction.</p> <p>Moulded Breadth (B) 63'-0"</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam = 15'-4"</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$</p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	39'-0"				
.. overhang ...	5 1/2"				
R.Q.D. enclosed ...	✓				
.. overhang ...	✓				
Bridge enclosed ...			9'-6"		
.. overhang aft ...					
.. overhang forward ...					
F'cle enclosed ...	46'-0"				
.. overhang ...	5 1/2"				
Trunk aft ...	✓				
.. forward ...	✓				
Tonnage opening aft ...	40'-1"				
.. forward ...	✓				
Total ...	460'-0"				

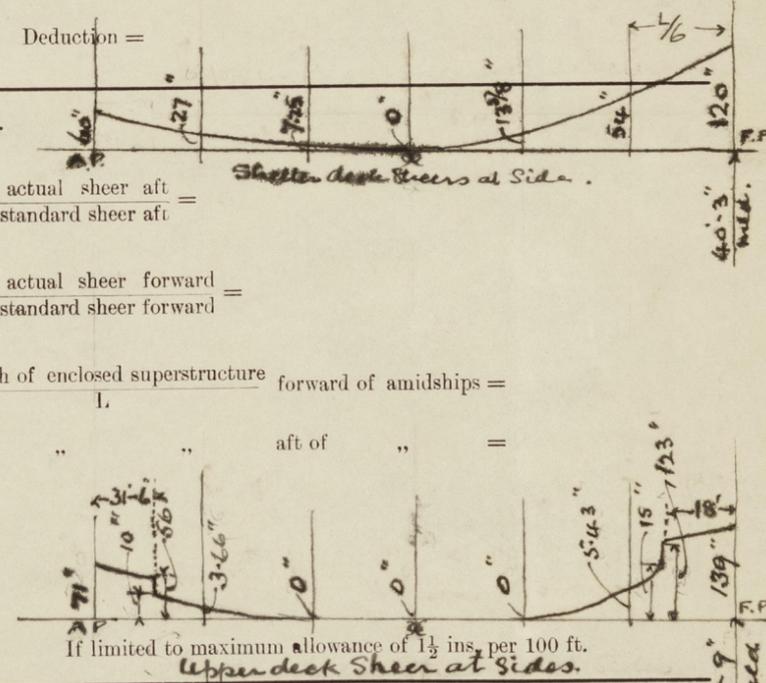


SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
1/4 L from A.P. ...		4					4		
2/4 L ..		2					2		
Amidships ...		4					4		
2/4 L from F.P. ...		2					2		
1/4 L ..		4					4		
F.P. ...		1					1		
Total ...									

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

If limited on account of midship superstructure.



<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = Ft.</p> <p>Summer freeboard =</p> <p>Moulded draught (d) =</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =</p> <p>Addition for Winter North Atlantic Freeboard (if required) =</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line (27'-0")</p> <p>$\Delta = 15,650$</p> <p>Tons per inch immersion at summer load water line</p> <p>$T = 56.0$</p> <p>Deduction = $\frac{\Delta}{40T}$ inches =</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p> <table border="1"> <tr> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction ...</td> <td></td> </tr> <tr> <td>Deduction for superstructures ...</td> <td></td> </tr> <tr> <td>Sheer correction ...</td> <td></td> </tr> <tr> <td>Round of Beam correction ...</td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td></td> </tr> </table> <p>Summer Freeboard =</p>	+	-	Depth Correction ...		Deduction for superstructures ...		Sheer correction ...		Round of Beam correction ...		Correction for Thickness of Deck amidships ...		Other corrections, scantlings, etc. ...	
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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 ...	Tropical Fresh Water Freeboard ...
Fresh Water Line ..	Fresh Water ..
Tropical Line ..	Tropical ..
Winter Line below ..	Winter ..
Winter North Atlantic Line ..	Winter North Atlantic ..

