

Lloyd's Register of Shipping.

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

SURVEYS FOR FREEBOARD.

13 FEB 1952

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

Ship's Name Denny M461	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)

Depth for Freeboard (D). Moulded depth ... 30'-9" Stringer plate37" Sheathing on exposed deck $T \frac{(L-S)}{L} =$ Depth for Freeboard (D) =	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 63'-0" Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = 15'-4" Difference Restricted to Correction = $\frac{\text{Diff.}}{4} \times (1 - \frac{S_1}{L}) =$
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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 ...	1'				
.. overhang ...	1'				
Bridge enclosed ...					
.. overhang aft ...					
.. overhang forward ...					
F'cle enclosed ...	46'-0"				
.. overhang ...	5 1/2"				
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...	1'-1"				
.. forward ...					
Total ...	460'-0"				

Standard Height of Superstructure _____
" " R.Q.D. _____
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$ _____
" " $\frac{S_1}{L} =$ _____
" " $\frac{E}{L} =$ _____
Percentage from Table, Line A.
(corrected for absence of forecastle (if required)) _____
Percentage from Table, Line B.
(corrected for absence of forecastle (if required)) _____
Interpolation for bridge less than .2L (if required) _____
Deduction = _____

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ _____
If limited on account of midship superstructure.

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 " = _____

If limited to maximum allowance of 1 1/2 ins. per 100 ft.
Upper deck Sheer at Sides.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = _____ Ft.
Summer freeboard = _____
Moulded draught (d) = _____

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 **(27'-0")**

$\Delta = 15,650$

Tons per inch immersion at summer load water line

$T = 56.0$

Deduction = $\frac{\Delta}{40 T}$ inches = _____

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction	...	...	...	...
Deduction for superstructures	...	...	...	...
Sheer correction	...	...	...	...
Round of Beam correction	...	...	...	...
Correction for Thickness of Deck amidships	...	...	...	...
Other corrections, scantlings, etc.	...	...	...	...

Summer Freeboard = _____

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck

Tropical Fresh Water Line above Centre of Disc	...	...
Fresh Water Line	"	"
Tropical Line	"	"
Winter Line	below	"
Winter North Atlantic Line	"	"

Tropical Fresh Water Freeboard	...
Fresh Water	...
Tropical	...
Winter	...
Winter North Atlantic	...

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.

COMPUTATION FOR STEAMER, TANKER, SHIP, YACHT, ETC.

Particulars of ship	Particulars of cargo	Particulars of passengers
1. Name of ship	2. Name of cargo	3. Name of passengers
4. Name of master	5. Name of cargo	6. Name of passengers
7. Name of cargo	8. Name of passengers	9. Name of cargo
10. Name of passengers	11. Name of cargo	12. Name of passengers

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Trade of ship	Names of sister ships	Builder's name and yard number	Owners	Fee
International	1460 / 1468	Wm Denny & Bros. 1461	A.G. Pappadakis	✓



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Foundation