

Timber Deck Cargo Freeboards :

Rpt. C.11 (Comp.).

Lloyd's Register of Shipping.

Index. No. 37149
(For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name LA GRANDE HERMINIE	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey Saint John N.B.
Moulded Dimensions: Length 310.44 Breadth 46.33 Depth 25.16	Moulded displacement at moulded draught = 85 per cent. of moulded depth tons				Date of Survey dry construction
Coefficient of fineness for use with Tables				Surveyor's Signature R. M. Scott	Particulars of Classification 2-100 A1 (Contemplated)

Depth for Freeboard (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) =	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = +10.72 (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) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ +0.02
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	31.21		7.75		
.. overhang ...	2.00				
R.Q.D. enclosed ...					
.. overhang ...					
Bridge enclosed...	76.00		9.0		
.. overhang aft ...	4.00				
.. overhang forward	2.00				
F'cle enclosed ...	31.23		7.0		
.. overhang ...					
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...					

Standard Height of Superstructure **6.604**
 " " R.Q.D. **36.03**
 Deduction for complete superstructure
 Percentage covered $\frac{S}{L} =$
 " " $\frac{S_1}{L} =$
 " " $\frac{E}{L} =$ **46.20**
 Percentage from Table, Line A.
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **Timber 66.87**
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required)
 Deduction = **36.03 x .6687 = -24.09**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{4}$ L from A.P. ...		4					4		
$\frac{2}{4}$ L " ...		2					2		
Amidships ...		4					4		
$\frac{2}{4}$ 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 =
 " " aft of " =
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) =$ **+6.26**
 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 = 25.19 Summer freeboard = 3.48 Moulded draught (d) = 21.71 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.43 = 5½" Addition for Winter North Atlantic Freeboard (if required) = $\frac{2}{3} = 7.24 = 7¼"$	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 6850 6903 Tons per inch immersion at summer load water line $T =$ 29.18 29.18 Deduction = $\frac{\Delta}{40T}$ inches = 5.87 5.91 = 5¾" - 6"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient Depth Correction 10.72 Deduction for superstructures -24.09 Sheer correction 6.26 Round of Beam correction... .. .02 Correction for Thickness of Deck amidships Other corrections, scantlings, etc. 17.00 24.09 -7.09 Summer Freeboard = 41.66
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Timber SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck Tropical Fresh Water Line above Centre of Disc 23½" " Fresh Water Line " 18" 18" " Tropical Line " 17¾" " Winter Line " 5" " Winter North Atlantic Line " 7¼" Summer line above 12¼"	Tropical Fresh Water Freeboard 3'-5¾" Fresh Water 2'-6½" Tropical 2'-11" Winter 3'-0" Winter North Atlantic 3'-0¼" 5'-1¼"
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