

PRELIMINARY TIMBER

Rpt. C.11 (Comp.).

Index No. _____
(For London Office only.)

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD. (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name CALEDON S/B2E.20	Official Number N^os 4682472	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 300.5 Breadth 46.0 Depth 23.0					Date of Survey 8-9-47
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature BJ
Coefficient of fineness for use with Tables .713					Particulars of Classification 100A1

DEPTH FOR FREEBOARD (D). Moulded depth 23.00 Stringer plate05 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 23.053	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = + 6.983 (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 = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = +.01''$
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DEDUCTION FOR SUPERSTRUCTURES.				
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed				
„ overhang				
R.Q.D. enclosed				
„ overhang				
Bridge enclosed				
„ overhang aft				
„ overhang forward				
F'cle enclosed				
„ overhang				
Trunk aft				
„ forward				
Tonnage opening aft				
„ „ forward				
Total				

Standard Height of Superstructure **6.51'**

„ „ R.Q.D. _____

Deduction for complete superstructure **35.37''**

Percentage covered $\frac{S}{L} = 42.10$

„ „ $\frac{S_1}{L} = 41.23$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. **TIMBER 63.77**
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. ✓

Interpolation for bridge less than .2L (if required) ✓

Deduction = **35.37 x .6377 = - 22.56**

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 =
L

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = +.01$
If limited on account of midship superstructure.

+ .01 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 = 23.03 Timber Summer freeboard = 2.402 Moulded draught (d) = 20.631 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.16 = 5 1/4 Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 6.987 = 7 1/4$	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 = 5''	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td style="text-align: center;">+</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">1.593</td><td></td></tr> <tr><td style="text-align: center;">1.36</td><td></td></tr> <tr><td style="text-align: center;">6.983</td><td></td></tr> <tr><td style="text-align: center;">.01</td><td style="text-align: center;">22.56</td></tr> <tr><td style="text-align: center;">.01</td><td></td></tr> <tr><td style="text-align: center;">.01</td><td></td></tr> <tr><td style="text-align: center;">6.95</td><td style="text-align: center;">.56</td></tr> <tr><td style="text-align: center;">7.00</td><td style="text-align: center;">22.80</td></tr> <tr><td colspan="2" style="text-align: center;">- 15.80</td></tr> <tr><td colspan="2" style="text-align: center;">Summer Freeboard = 28.78 97</td></tr> </table>			+	-	1.593		1.36		6.983		.01	22.56	.01		.01		6.95	.56	7.00	22.80	- 15.80		Summer Freeboard = 28.78 97	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
TIMBER	Tropical Fresh Water Line above Centre of Disc	... 22 3/4''	Tropical Fresh Water Freeboard
„	Fresh Water Line	... 17 1/2''	Fresh Water
„	Tropical Line	... 17 3/4''	Tropical
„	Winter Line <i>above</i>	... 5 1/2'' 5 3/4''	Winter
„	Winter North Atlantic Line <i>below</i>	... 7''	Winter North Atlantic
	SUMMER ABOVE	12 1/2''	