For Hatch Beams
C.S.S

Rpt. C.11 (Comp.).

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No._____
(For London Office only.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Denny 1460				

Port of Survey _____

Date of Survey ___ 9.11.51.

Moulded Dimensions: Length 461 Breadth 63 Depth 40.25-9 3125

Surveyor's Signature _____

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons
(excluding bossing)

Particulars of Classification ___ +100A1

Coefficient of fineness for use with Tables ___ .68

contemplative

DEPTH FOR FREEBOARD (D).

Moulded depth 31.25

Stringer plate ... ... .04

Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = 31.29

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) $R = \dfrac{(31.29-30.73)\times3}{.76} = +1.68''$

(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 = $\dfrac{B\times12}{50} =$

Ship's Round of Beam later = standard

Difference

Restricted to

Correction = $\dfrac{Diff^n}{4}\times\left(1-\dfrac{S_1}{L}\right) = Nil$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	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 _____

„ „ R.Q.D. _____

Deduction for complete superstructure _____

Percentage covered $\dfrac{S}{L} =$

„ „ $\dfrac{S_1}{L} =$

„ „ $\dfrac{E}{L} =$

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 = 42

SHEER CORRECTION.

9
7-5

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
⅙L from A.P. ...		4				4	
⅔L „ ...		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
⅙L „ ...		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 / L forward of amidships =

„ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(·75-\dfrac{S}{2L}\right) = 1.5$

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.

	Ft.
Depth to Freeboard Deck =	31.29
Summer freeboard =	4.08
Moulded draught (d) =	27.23
Keel allowance =	
Extreme draught =	

Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line
$\triangle =$

Tons per inch immersion at summer load water line
$T =$

Deduction = $\dfrac{\triangle}{40\,T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required) 90.51

Correction for coefficient   Nil   90.51

	+	−
Depth Correction	1.68	
Deduction for superstructures ...		42
Sheer correction		1.5
Round of Beam correction ...		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		
	1.68	43.50 −41.82

Summer Freeboard = 48.69

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	„	...

2m.7.50. T.

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