

Conversion (lengthening of Poop)

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name 'HAMILTON HARBOUR'	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>360.75</u> Breadth <u>49.50</u> Depth <u>28.82</u> Freeboard Length <u>360.75</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>9420</u> tons Coefficient of fineness for use with Tables <u>.754</u>					Date of Survey <u>27-3-56</u> Surveyor's Signature _____ Particulars of Classification <u>+ 100 A1 contemplated</u>

DEPTH FOR FREEBOARD (D). Moulded depth Stringer plate Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>28.86</u>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = <u>+13.35</u> (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) <u>49.50</u> Standard Round of Beam = $\frac{B \times 12}{50} = 11.88$ Ship's Round of Beam = <u>12</u> Difference <u>.12</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.12}{4} \times .5572 = .02$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>90.00</u>	<u>90.00</u>	<u>8'0"</u>		<u>90.00</u>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<u>43.17</u>	<u>43.17</u>	<u>7'6"</u>		<u>43.17</u>
" overhang aft	<u>3.00</u>	<u>2.25</u>			<u>2.25</u>
" overhang forward					
F'cle enclosed	<u>23.83</u>	<u>23.83</u>	<u>7'6"</u>		<u>23.83</u>
" overhang	<u>.50</u>	<u>.50</u>			<u>.50</u>
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<u>160.50</u>	<u>159.75</u>			<u>159.75</u>

Standard Height of Superstructure 7.108'

" " R.Q.D. ✓

Deduction for complete superstructure 39.38

Percentage covered $\frac{S}{L} = 44.49$

" " $\frac{S_i}{L} = 44.28$

" " $\frac{E}{L} =$

Percentage from Table, Line A. 27.13

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 31.13

(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required) 27.13 + (4 x 45.42 / 72.15) = 29.65

Deduction = 39.38 x .2965 = 11.68

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{2}L$ from A.P.		4					4		
$\frac{2}{5}L$ "		2					2		
Amidships	0	4	0	0	0	0	4	0	0
$\frac{2}{5}L$ from F.P.		2					2		
$\frac{1}{2}L$ "		4					4		
F.P.		1					1		
Total				<u>414.66</u>					<u>414.36</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{.30}{18} (.75 - .2225) = +.01$

If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

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

Depth to Freeboard Deck = 28.86 Ft.

Summer freeboard = 5.37

Moulded draught (d) = 23.49

Keel allowance = ✓

Extreme draught = ✓

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

$\Delta =$

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.754 + .68}{1.36} = 1.436$

Depth Correction 13.35

Deduction for superstructures 11.68

Sheer correction01

Round of Beam correction02

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

Summer Freeboard = 64.54

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	"