

*Amended Computations
for closing of tonnage opening*

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 PYIDAWTHA	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey _____
Moulded Dimensions: Length 253.58 Breadth 38.58 Depth 23.54 ✓					Date of Survey 7.11.52
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables 68 (actual, smaller) ✓					Particulars of Classification +100 A1 with freeboard

DEPTH FOR FREEBOARD (D).

Moulded depth	23.54
Stringer plate	... 3.813
Sheathing on exposed deck
$T \left(\frac{L-S}{L} \right) = \frac{2.625}{12} \times 58.59 = .13$		
Depth for Freeboard (D)	...	23.70

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D - Table depth) R = $(23.70 - 16.90) 1.951 = +13.27"$ ✓

(b) Where D is less than Table depth (if allowed)
(Table depth - D) R = 6.80 ✓

If restricted by superstructures ✓

ROUND OF BEAM CORRECTION.

Moulded Breadth (B)	38.58
Standard Round of Beam = $\frac{B \times 12}{50}$	9.26
Ship's Round of Beam	8.75 (assumed)
Difference	0.51
Restricted to	...
Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{0.51}{4} \times 58.59 = +.07"$	+0.07

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 <i>Equip.</i>	74.49	74.49	7.29	✓	74.49
" overhang aft	0.51	0.38	0.38
" overhang forward
F'cle enclosed <i>Equip.</i>	29.71	29.71	7.00	✓	29.71
" overhang	0.29	0.18	0.18
Trunk aft
" forward
Tonnage opening aft
" forward
Total	105.00	104.76	✓	✓	104.76

Standard Height of Superstructure **6.036**

" " R.Q.D. **31.36**

Deduction for complete superstructure **31.36**

Percentage covered $\frac{S}{L} = \frac{41.41}{100} = 41.41\%$ ✓

" " $\frac{S_1}{L} = \frac{41.31}{100} = 41.31\%$ ✓

" " $\frac{E}{L} = \frac{41.31}{100} = 41.31\%$ ✓

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

Percentage from Table, Line B. **24.61** ✓
(corrected for absence of forecastle (if required))

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

Deduction = **31.36 × 24.61 = -7.72"** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	35.36	1	1	35.36	20.0	20.0	1	1	20.00
$\frac{1}{2}L$ from A.P.	15.73	4	4	62.92	5.62	5.62	4	4	22.48
$\frac{3}{4}L$ "	3.89	2	2	7.78	—	—	2	2	—
Amidships	—	4	4	—	—	—	4	4	—
$\frac{3}{4}L$ from F.P.	7.78	2	2	15.56	5.87	5.87	2	2	11.74
$\frac{1}{2}L$ "	31.47	4	4	125.88	19.2	19.2	4	4	76.48
F.P.	70.72	1	1	70.72	41.0	41.0	1	1	41.00
Total	318.22	177.70

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{146.52}{18} (-.75 - .2071) = +4.42"$ ✓

If limited on account of midship superstructure. **54.29** If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck	= 23.57
Summer freeboard	= 7.44
Moulded draught (d)	= 16.13
Keel allowance	=

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **4.03 = 4"**

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

4"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **NIL**

	+	-
Depth Correction	13.27	✓
Deduction for superstructures	7.72	✓
Sheer correction	4.42	✓
Round of Beam correction	.07	✓
Correction for Thickness of Deck amidships	1.56	✓
Other corrections, scantlings, etc. TO...	47.72	✓
Summer Freeboard	65.48	9.28

Summer Freeboard = **89.25**

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

Tropical Fresh Water Line above Centre of Disc	4"
Fresh Water Line	4"
Tropical Line	NIL
Winter Line below	1 1/2"
Winter North Atlantic Line	3 1/2"

Tropical Fresh Water Freeboard

Fresh Water	7.1 1/4"
Tropical	7.1 1/4"
Winter	7.1 1/4"
Winter North Atlantic	7.1 1/4"

Pyidalawtha.

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.

Bridge

Forecastle

$$\begin{aligned} \text{Length at side} &= 75.00 \checkmark \\ \text{less } \frac{(2.52 \times 3.48)}{38.58} + \frac{(2.29 \times 3.15)}{38.58} &= 0.42 = 0/H \checkmark \\ &= 74.58 \checkmark \\ \text{less } \frac{2 \times 1.33 \times 4.13}{3 \times 38.58} \text{ (treated as for Bow front)} &= 0.09 = 0/H \\ &= 74.49 = \text{Equiv. length.} \end{aligned}$$

$$\begin{aligned} \text{Length at side} &= 30.00 \checkmark \\ \text{less } \frac{2.85 \times 2.52}{25.13} &= \frac{0.29}{29.71} = 0/H \times 0.615 = 0.18 \\ &= \text{Equiv. length.} \end{aligned}$$

$$\begin{aligned} \text{Actual } 0/H &= 0.42 \\ &+ \frac{0.09}{0.51} \checkmark \end{aligned}$$

8.8

7.2

3.7

19.7

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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