

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

3 MAY 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Shelter deck + Joche.
JAG KANI
HAKE GENEVA Type of Superstructures.)
Ship's Name Nationality and Port of Registry Official Number Gross Tonnage Date of Build
TEMPLE PIER British London 160509 4312 1928-6
Moulded Dimensions: Length 388.5' Breadth 52.75' Depth 27.20'
Moulded displacement at moulded draught = 85 per cent. of moulded depth 10450 tons
Coefficient of fineness for use with Tables .772

Port of Survey Newcastle
Date of Survey 2nd May 1932.
Name of Surveyor P. Broadacre
Particulars of Classification HOOA1
with freeb.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	27.21	(a) Where D is greater than Table depth (D - Table depth) R =	130	Moulded Breadth (B)	52.75
Stringer plate	.38"	(27.24 - 25.90) 2.988	4.00	Standard Round of Beam = $\frac{B \times 12}{50}$	12.66
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	12.2
T $\left(\frac{L-S}{L}\right) =$		If restricted by superstructures		Difference	.16
Depth for Freeboard (D) =	27.24			Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{.16^2}{4} \times .0064 = .0004$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	31.9	31.75	8'-0"		31.75
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...	351.9	351.75	8'-0"		351.75
„ overhang forward ...					
„ ele enclosed ...					
„ overhang on S.D. ...	29.6		7'-4"		
Trunk aft ...					
„ forward ...					
„ onnage opening aft ...	5'-0"	2.5	8'-0"		2.5
„ „ forward ...					
Total ...	388.5	386.0			386

Standard Height of Superstructure 7.385
„ „ R.Q.D. 41.24
Deduction for complete superstructure 41.24
Percentage covered $\frac{S}{L} = 100\%$
„ „ $\frac{S_1}{L} = 99.36$
„ „ $\frac{E}{L} = 99.36$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 99.21
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required) CS.S
Deduction = 41.24 + 99.21 = 40.91

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...	48.85	1	48.85	49.50	49.50	1	56.88
from A.P. ...	21.74	4	86.96	21.00	21.33	4	101.24
„ „	5.37	2	10.74	5.50	5.33	2	12.52
„ „	0	4				4	0
„ P. ...	10.74	2	21.48	11.00	11.16	2	24.06
„ „	43.48	4	173.92	44.50	44.63	4	194.68
F.P. ...	97.70	1	97.70	102.00	102.00	1	109.38
Total ...			439.65		498.76		498.76

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{59.11}{18} \times .25 = + .82$

If limited on account of midship superstructure.

Mean actual shear aft = Excess
Mean standard shear aft = Excess
Mean actual shear forward = Excess
Mean standard shear forward = Excess
Length of enclosed superstructure forward of amidships = CS.S
„ „ aft of „ = CS.S

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

Ft.
Depth to Freeboard Deck = 27.24
Summer freeboard = 2.90
Moulded draught (d) = 24.34

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.086

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 11068$

Tons per inch immersion at summer load water line

T = 40.16

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

= 6.9

7"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.772 + .68}{136} =$

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

+	-
4.00	40.91
	.82
4.00	41.73

Summer Freeboard = 34.83

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

Tropical Fresh Water Line above Centre of Disc	13
Fresh Water Line	7
Tropical Line	6
Winter Line below	6
Winter North Atlantic Line	

Tropical Fresh Water Freeboard	2-10 3/4
Fresh Water	1-9 3/4
Tropical	2-3 3/4
Winter	2-4 3/4
Winter North Atlantic	3-4 3/4

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Particulars of Scuppers and Sanitary Discharge Pipes

Particulars of Scuppers and Sanitary Discharge Pipes —
 W. C. discharges lead & M. S. storm valves fitted.
 Scuppers from sheet T.D. space overboard fitted with storm valves. ✓
 all S. Valves. cast steel. wood plugs at deck

No deadlights fitted in crew's quarters aft.

Particulars of Guard Rails:—
Yoke rails:— 2 tier rails 3' 4" high. Stanchions 4' 6" apart.
Shelter " 3 " " 3' 6" " " 5' 0" "
" " Bulwark (amidships) 3' 7" high. Stanchions 7' 4" 8 p. sp. 6' 0" apart.

Shelter decks

Particulars of fiddley, funnel and ventilator coamings :—

The fiddleys gratings are fitted with hinged steel covers.
The engine room skylight is steel.
The fiddleys funnel vent. good. ✓

Kare.

Particulars of Companionways:—

Shelter deck aft:-	Steel companion with hinged teak door operating both sides. Sill 18'.
" " mast houses -	escape hatch to tween decks with no battering arrangements.
	Hinged steel door in way operating both sides. Sill 17'.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :-

Fore decks :-	1 @ 8" dia led to fore peak.	Coaming	36" x 28"
	2 @ 12" " " "	led	36" x 40"
Shelter deck :-	22 @ 12" " " "	" or T. decks.	31" x 40"
	3 @ 9" " " "	bunkers, accom on tunnel	6.30" x 38"

Ventilators are in accordance with Rule requirements.
Closing-wood plugs & canvas covers. ✓

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Fore decks:-	1 @ 3½" dia.	led to fore peak x 21" to mouth.
Shelter decks:-	16 @ 4" " "	D.B. tanks x 18"-22" to mouth.
	1 @ 3" " "	aft peak x 20" " "

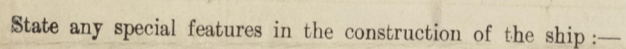
Closing - wood plugs

None

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Roop Bulkhead (T.S.)	...	Intact
Raised Quarter Deck Bulkhead	...	✓
Bridge, After Bulkhead (T.S.)	...	Full height riveted channels & 3" boards
Bridge, Forward Bulkhead	...	✓
Forecastle Bulkhead (On S.D.)	...	Full height riveted channels & 3" boards
Exposed Machinery Casings on Free-board or Raised Quarter Decks	...	✓
Exposed Machinery Casings on Superstructure Decks	...	2 hinged steel & 2 hinged teak doors - operating both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	1 hinged steel door - operating both sides. 2 manholes with bolted covers (6 bolts) for emergency access to T.D bunkers from fiddle casing
Bunkers on Flush Deck	...	T.D bunkers from fiddle casing

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



40-16

Fee £ 12 : 15 : 0

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