

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Having Poop Bridge & Forecastle

Port of Survey Newcastle

(Type of Superstructures.)

Date of Survey 11th April, 1932

Ship's Name

GLAISDALE

Nationality and Port of Registry

British
Whitby

Official Number

161012

Gross Tonnage

3777

Date of Build

1929-9

Name of Surveyor P. D. Browne

Moulded Dimensions: Length 360' 0" Breadth 49' 8 1/2" Depth 25' 5"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 8752 ✓ tons
Coefficient of fineness for use with Tables 492 ✓

Particulars of Classification + 100 A1.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	25' 42"	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	49' 41"
Stringer plate	05"	(25' 44" - 24' 00") × 2' 469 = + 4' 04"		Standard Round of Beam = $\frac{B \times 12}{50}$	11' 93"
Weathering on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	12' 42 1/2"
$T \left(\frac{L-S}{L} \right) =$				Difference	32"
Depth for Freeboard (D) =	25' 44"	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{32 \times 2052}{4} = - 02$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	31' 8 1/2"	31' 41"	8' 6"	✓	31' 41"
" overhang	-	-	-	-	-
R.Q.D. enclosed	-	-	-	-	-
" overhang	-	-	-	-	-
Bridge enclosed	219' 00"	219' 00"	8' 6"	✓	219' 00"
" overhang aft	-	-	-	-	-
" overhang forward	35' 38"	35' 38"	8' 6"	✓	35' 38"
Fore enclosed	34' 32"	35' 38"	8' 6"	✓	35' 38"
" overhang	13' 0" HOUSE	-	-	-	-
Trunk aft	AT WINGS	-	-	-	-
" forward	-	-	-	-	-
Tonnage opening aft	-	-	-	-	-
" forward	-	-	-	-	-
Total	286' 09"	286' 09"	-	-	286' 09"

Standard Height of Superstructure	4' 10"
" " R.Q.D.	✓
Deduction for complete superstructure	39' 33"
Percentage covered $\frac{S}{L} =$	79' 48"
" " $\frac{S_1}{L} =$	79' 48"
" " $\frac{E}{L} =$	79' 48"
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	44' 66"
Interpolation for bridge less than 2L (if required)	
Deduction =	39' 33" × 44' 66" = - 29' 36"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	46' 00"	1		46' 00"	58' 50"	58' 50"	1		58' 50"
1/4 L from A.P.	20' 44"	4		81' 88"	24' 75"	24' 89"	4		99' 56"
1/2 L	5' 06"	2		10' 12"	6' 25"	6' 22"	2		12' 44"
Amidships	-	4		-	-	-	4		-
3/4 L from F.P.	10' 12"	2		20' 24"	12' 50"	12' 54"	2		25' 08"
1/4 L	40' 94"	4		163' 76"	50' 00"	50' 16"	4		200' 64"
F.P.	92' 00"	1		92' 00"	108' 00"	108' 00"	1		108' 00"
Total				414' 00"					504' 22"

Mean actual sheer aft = Excess
Mean standard sheer aft =Mean actual sheer forward = Excess.
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = 311 L ✓

" " aft of " = 294 L ✓

Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{90' 22"}{18} \times \left(75 - \frac{3526}{3944} \right) = - 1' 44"$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
Depth to Freeboard Deck = 25' 44"
Summer freeboard = 3' 10"
Moulded draught (d) = 22' 34"

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 9116 ✓

Tons per inch immersion at summer load water line

T = 36' 4" ✓

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

= 6' 21" ✓

= 6' 4" ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

492 + 68 = 560

1.36

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 5' 59" = 5 1/2"

Addition for Winter North Atlantic Freeboard (if required =

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

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line

Tropical Line

Winter Line below

Winter North Atlantic Line

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS													
<div> <div>Under Decks</div> <div>Bridge</div> <div>Under Decks</div> <div>Fore</div> <div>Pooh</div> <div>Coaming</div> </div>													
Description of Hatchway	No 1	No 2	No 3	No 4	No 5	No 2	No 3	No 4	4 COAL HATS	TO FORE PEAK	ESCAPE HATS	4 COAL HATS	TO FORE PEAK
Dimensions of Hatchway	24'9" x 20'	30'3" x 20'	13'9" x 18'	30'3" x 20'	30'3" x 20'	30'3" x 20'	13'9" x 18'	30'3" x 20'	11'0" x 7'6" x 4'11"	3'9" x 3'1"	2'0" x 2'0"	8'3" x 5'0"	3'0" x 3'0"
COAMINGS	Height above Deck	34"	44"	44"	44"	44"	44"	44"	40"	40"	40"	40"	40"
	Thickness	44"	44"	44"	44"	44"	44"	44"	40"	40"	40"	40"	40"
	Stiffeners	7 x 3 x 4 8 BA	5	5	5	5	5	5	5	5	5	5	5
	Brackets, Stays	2 D/A	25	25	25	25	25	25	25	25	25	25	25
HATCH BEAMS	Number	4	5	2	5	5	5	2	5	5	5	5	5
	Spacing	4'11 1/2"	5'0 1/2"	4'7"	5'0 1/2"	5'0 1/2"	5'0 1/2"	4'7"	5'0 1/2"	5'0 1/2"	5'0 1/2"	5'0 1/2"	5'0 1/2"
	Scantling and Sketch	18 x 36	18 x 40	18 x 40	18 x 40	18 x 36	16 x 34	14 x 32	16 x 34	16 x 34	16 x 34	16 x 34	16 x 34
	Bearing Surface	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS	Number												
	Spacing												
	Unsupported Lengths												
	Scantling* and Sketch												
HATCH COVERS	Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.
	Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
	How fitted	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.	F.A.
	Bearing Surface	3 x 4"	3 1/2 x 4"	3 1/2 x 4"	3 1/2 x 4"	3 x 4"	3 x 4"	3 x 4"	3 x 4"	3 x 4"	3 x 4"	3 x 4"	3 x 4"
Spacing of Cleats		24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
Number of Tarpaulins		3 sets & shares											

*Are wood fore and afters steel shod at all bearing surfaces? *Yes.*
 Are battens and wedges efficient and in good condition? *Yes.*
 Are tarpaulins in good condition and in accordance with rule requirements? *Yes.*
 Are lashings provided in accordance with rule requirements? *Yes.*

Particulars of fiddle, funnel and ventilator coamings:-

*The fiddle gratings are fitted with hinged steel covers.
 The E.R. skylight is steel.
 Fiddle & funnel vents good.*

Particulars of Flush Bunker Scuttles:-

None.

Particulars of Companionways:-

Pooh deck:- steel companion with hinged teak doors operating both sides. Sill 8".

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

*Fore deck:- 1 @ 6" dia. led to fore peak. Coaming 36" x 30"
 2 @ 21" " " " " " " 36" x 40"
 Bridge:- 4 @ 24" " " " " " " 108" x 40"
 2 @ 15" " " " " " " 108" x 40"
 2 @ 15" " " " " " " 30" x 38"
 Pooh:- 2 @ 21" " " " " " " 27" x 40"
 1 @ 12" " " " " " " 27" x 36"*

*The 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 deck:- 1 @ 3" dia. led to fore peak. Height to mouth 23"
 1 @ 2" " " " " " " 19"
 Bridge:- 14 @ 2 1/2" " " " " " " 23"
 4 @ 3" " " " " " " 11"
 2 @ 2" " " " " " " 18"
 1 @ 3" " " " " " " 21"*

a wood plug attached by chain is fitted to all air pipes

Gangway Cargo and Coaling Ports:-

e.



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Particulars of Scuppers and Sanitary Discharge Pipes —

W.C. discharges lead to No. 2. Storm valves fitted. ✓
 Scupper P. & S. from bridge space overboard. Fitted with plate cover, rubber washer & screw to deck. ✓

Particulars of Side Scuttles:

Hinged dead-lights fitted in poop & fore spaces. ✓

Particulars of Guard Rails:—

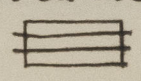
Poop, bridge & fore decks:— 3 tier rails 3'-6" high. Stems sp. 4'-8" to 5'-3" apart. ✓
 Bridge bulwarks amidships 3'-6" in height. Stems 5½" x 3" x 40" B.A. sp. 4'-6" apart. ✓
 Wells:— bulwarks 4'-0" high. Stems 6" x 3" x 40" B.A. sp. 5'-6" apart. ✓

Particulars of Gangways, Lifelines, etc.:—

Wood gangway 30" broad from poop to bridge & bridge to fore. ✓
 Stanchions 3'-4" in height. Spaced 4'-6" apart. (Two wires) ✓

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	41'-3"	4'-0"	3.50' x 1.66'	3	17.43 sq ✓	10.62 sq ✓
Forward Well	30'-9"	4'-0"	3.50' x 1.66'	2	11.62 sq ✓	9.57 sq ✓

State position of each freeing port } After Well:— 10'-6" — 21'-6" & 32'-0" from bridge end. } 12" above decks.
 (F. and A. position and height above deck edge) } Forward Well:— 6'-6" & 21'-3" from fore end. ✓ }
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—  ✓

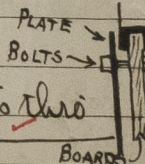
Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	40" ✓	36" ✓	6" x 3 x 40" ✓	30" ✓	Lugs. ✓	1) 4'-9" x 24" ✓ 2) 5'-0" x 24" ✓	19" ✓	
Raised Quarter Deck Bulkhead ...	—	—	—	—	—	—	—	—
Bridge, After Bulkhead	—	32" ✓	3" flange	42" ✓	None ✓	2) 5'-1" x 37" ✓	18" ✓	
Bridge, Forward Bulkhead	44" ✓	40" ✓	9" x 3 x 48" B.A. ✓	29" ✓	Lugs. ✓	2) 5'-1" x 31" ✓	19" ✓	
Forecastle Bulkhead	—	28" ✓	3" flange	32" ✓	None ✓	1) 4'-10" x 37" ✓ 2) 4'-0" x 24" ✓	18" ✓	
Trunk, Aft	—	—	—	—	—	—	—	—
Trunk, Forward	—	—	—	—	—	—	—	—
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	—	—	—	—	—	—	—	—
Exposed Machinery Casings on Superstructure Decks	32" ✓	32" ✓	3" x 3 x 32" ✓	33" ✓	Part bbs. ✓	3) 5'-2" x 24" ✓ 2) 4'-9" x 24" ✓	19" ✓ 17" ✓	7'-9"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	32" ✓	32" ✓	3" x 3 x 32" ✓	33" ✓	—	2) 2'-0" x 24" ✓ 1) 5'-8" x 38" ✓	47" ✓ 18" ✓	
Deckhouses on Flush Deck Ships ...	—	—	—	—	—	—	—	—

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

Poop Bulkhead	1 hinged wood door & 4 hinged steel doors - all operating both sides ✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead	Full height riveted channels with boards also plate with hook bolts thru boards only ✓
Bridge, Forward Bulkhead	Hinged steel doors operating both sides. ✓
Forecastle Bulkhead	1 full height riveted channel & 2 ¾" boards. 1 hinged teak door - operating both sides. ✓
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Superstructure Decks	3 hinged steel & 2 hinged teak doors - all operating both sides. ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	3 hinged steel doors operating both sides. ✓
Deckhouses on Flush Deck Ships ...	✓

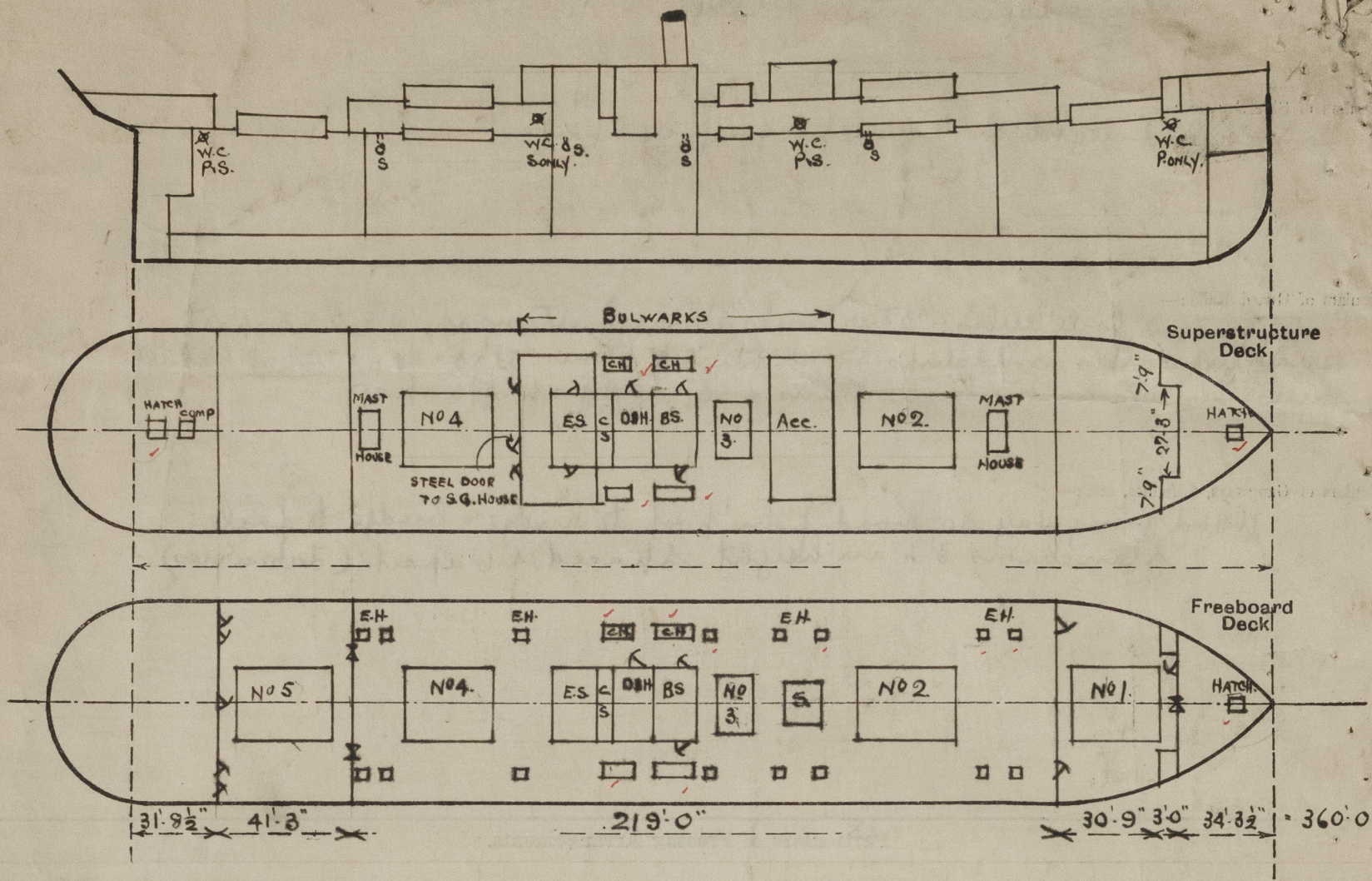


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Glaizdale

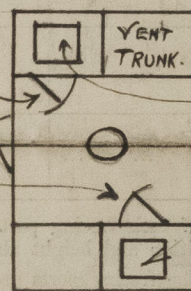
Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

No Timber Assignment required.

HINGED STEEL
DOORS OPERATING
BOTH SIDES.
SILL 18"



ESCAPE HATCH.
2' 6" x 30"
NO COAMINGS
NOR BATTENING
ARRANGEMENTS

STEEL MAST HOUSE

Glaizdale
Med dist @ 85% med depth = 8752

Grapt. / Co. dist / Tons per 1"

22	8877	36.62
23	9300	36.78

Forecastle 34.29 ✓

Sidehouses $\frac{7.45 \times 3.0}{21.34} = 1.09$ ✓
35.38 ✓

11/17

0126 3/3

Builder's name and yard number *Sir J Lang & Sons, Ltd*

Names of sister ships

Owners *Headman & Sons & Co Ltd*

Fee £ 11 : 18 : 0 Received by me

APPLIED FOR 12 APR 1932



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