

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

23000.

 Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having *Prop. Long Bridge - Torquay.*
Port of Survey **NEWPORT, MON.**Date of Survey *7 July 1932*Name of Surveyor *D. W. A. J. Jones*Particulars of Classification *100A1*

Ship's Name

"HINDPOOL"

(Type of Superstructures.)

Nationality and Port of Registry

British
W. Hartlepool

Official Number

139256

Gross Tonnage

4897

Date of Build

1928-5

 Moulded Dimensions: Length *405'* Breadth *53.29'* Depth *29.46'*
 Moulded displacement at moulded draught = 85 per cent. of moulded depth *11943* tons
 Coefficient of fineness for use with Tables *.773*

Depth for Freeboard (D)

Moulded depth ... *29.46'*Stringer plate ... *.03'*

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = *29.49'*

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R =

$$(29.49 - 27.00) 3 = + 7.47$$

(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 = $\frac{B \times 12}{50} =$

Ship's Round of Beam =

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{7}{4} (1 - 7380) = - .05$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<i>29.75'</i>	29.75	<i>7.6'</i>		29.75
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	<i>228.58'</i>	228.58	<i>7.6'</i>		228.58
" overhang aft ...					
" overhang forward ...					
Fore enclosed ...	<i>40.50'</i>	40.50	<i>7.6'</i>		40.50
" overhang ...	<i>5.25'</i>	.12	<i>3.25'</i>		.12
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<i>299.08'</i>	298.95			298.95

Standard Height of Superstructure *7.5*" " R.Q.D. *1*Deduction for complete superstructure *42.0*Percentage covered $\frac{S}{L} = 73.83\%$ " " $\frac{S_1}{L} = 73.80\%$ " " $\frac{E}{L} = 73.80\%$

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 = $42 \times .6767 = - 28.43$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	50.50	1	50.50	<i>48"</i>	48.00	1	48.00
$\frac{1}{4}$ L from A.P. ...	22.47	4	89.88	<i>20.93</i>	20.93	4	83.72
$\frac{3}{4}$ L " ...	5.55	2	11.10	<i>5.22</i>	5.22	2	10.44
Amidships ...		4		<i>X</i>		4	
$\frac{3}{4}$ L from F.P. ...	11.11	2	22.22	<i>11.37</i>	11.35	2	22.70
$\frac{1}{4}$ L " ...	14.95	4	179.80	<i>45.62</i>	45.63	4	182.52
F.P. ...	101.00	1	101.00	<i>105"</i>	105.00	1	105.00
Total ...			454.50				452.38

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{212}{18} \left(.75 - \frac{3808}{3692} \right) = + .04$$

If limited on account of midship superstructure.

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 = *29.49*
 Summer freeboard = *4.75*
 Moulded draught (d) = *24.74*

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = *6.18* = *6.4*

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 11845$$

Tons per inch immersion at summer load water line

$$T = 43.2$$

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

$$= 6.86$$

$$= 6.4$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{773 + .68}{1.36} = \frac{1.453}{1.36}$$

	+	-
Depth Correction ...	7.47	-
Deduction for superstructures ...	-	28.43
Sheer correction04	-
Round of Beam correction ...	-	.05
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
	7.51	28.48

Summer Freeboard = *57.09*

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 " " ... *6.4"* ...
 Tropical Line " " ... *6.4"* ...
 Winter Line below " " ... *6.4"* ...
 Winter North Atlantic Line " " ... *6.4"* ...

 Tropical Fresh Water Freeboard ... *3.8"* ...
 Fresh Water " " ... *4.24"* ...
 Tropical " " ... *4.23"* ...
 Winter " " ... *5.43"* ...
 Winter North Atlantic " " ... *5.43"* ...

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Freeboard Deck Bridge Poop											
Description of Hatchway	1	2	3	4	5	6	2	3	4	-	-
Dimensions of Hatchway	27'0" x 20'0"	28'0" x 20'0"	18'8" x 20'0"	29'0" x 20'0"	28'0" x 20'0"	18'0" x 20'0"	28'0" x 20'0"	18'0" x 20'0"	28'0" x 20'0"	18'0" x 20'0"	18'0" x 20'0"
COAMINGS	Height above Deck	39"	15"	15"	15"	31"	31"	31"	31"	31"	31"
	Thickness	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
	Stiffeners	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"	7 x 3 x 5/8"
	Brackets, Stays	2	1	1	1	2	1	2	1	2	1
HATCH BEAMS	Number	5	4	20/18/14/14	4	4	4	20/18/14/14	4	1	1
	Spacing	4'6"	5'7 1/2"	4'8"	5'7 1/2"	5'7 1/2"	4'6"	6'7 1/2"	4'8"	5'7 1/2"	5'0"
	Scantling and Sketch	16 1/2 x 35	15 1/2 x 35	16 1/2 x 35	15 1/2 x 35	14 1/2 x 35	17 1/2 x 35	15 1/2 x 35	16 1/2 x 35	15 1/2 x 35	16 1/2 x 35
	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"
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.
	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"
	How fitted	F.M.	F.M.	F.M.	F.M.	F.M.	F.M.	F.M.	F.M.	F.M.	F.M.
	Bearing Surface	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'	3'8 1/2" x 4'
Spacing of Cleats		24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
Number of Tarpaulins		2	2	2	2	2	2	2	2	2	2
<p>*Are wood fore and afters steel shod at all bearing surfaces? <i>Yes</i></p> <p>Are battens and wedges efficient and in good condition? <i>Yes</i></p> <p>Are tarpaulins in good condition and in accordance with rule requirements? <i>Yes</i></p> <p>Are lashings provided in accordance with rule requirements? <i>Yes</i></p>											

Particulars of fiddle, funnel and ventilator coamings :-

Stockholm gratings covered by strong steel lugs covers
Daily funnel & ventilator coamings in good condition
Engine room skylights of steel, strongly constructed

Particulars of Flush Bunker Scuttles :-

None

Particulars of Companionways :-

None

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

On Poop 1 Vent 9 1/2" dia casing 36" high x 36" to funnel
After Well 1 " 15" " 36" " x 42" Hold.
Bridge Deck 4 " 15" " 30" " x 36" " 8 Bunkers
1 " 18" " 20" " x 36" Hold.
In Well 10

Forecastle 5 Bunkers 7" dia casing 36" x 32"
Wood plugs & canvas covers fitted

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

Poop 1 C.S. air pipe 3" dia 16" 11" high to R.P.T.
After Well 10
Bridge Deck 8 C.S. air pipes 3" dia 16" 10" high to R.P.T.
Forecastle 1 C.S. air pipe 3" dia 15" 10" high to R.P.T.

Opponent closing appliances
No plugs fitted
No riveting holes in air pipes

Particulars of Gangway Cargo and Coaling Ports :-

None



Particulars of Scuppers and Sanitary Discharge Pipes — *No scuppers or soil pipes fitted below freeboard deck.*
Soil pipes fitted with storm valves at ship's side.

Particulars of Side Scuttles: *All side scuttles fitted with hinged deadlights.*

Particulars of Guard Rails:— *Rails 3'0" high. Stanchions spaced 4'9". Two rails.*
Bulwarks roundships strong & efficiently constructed.

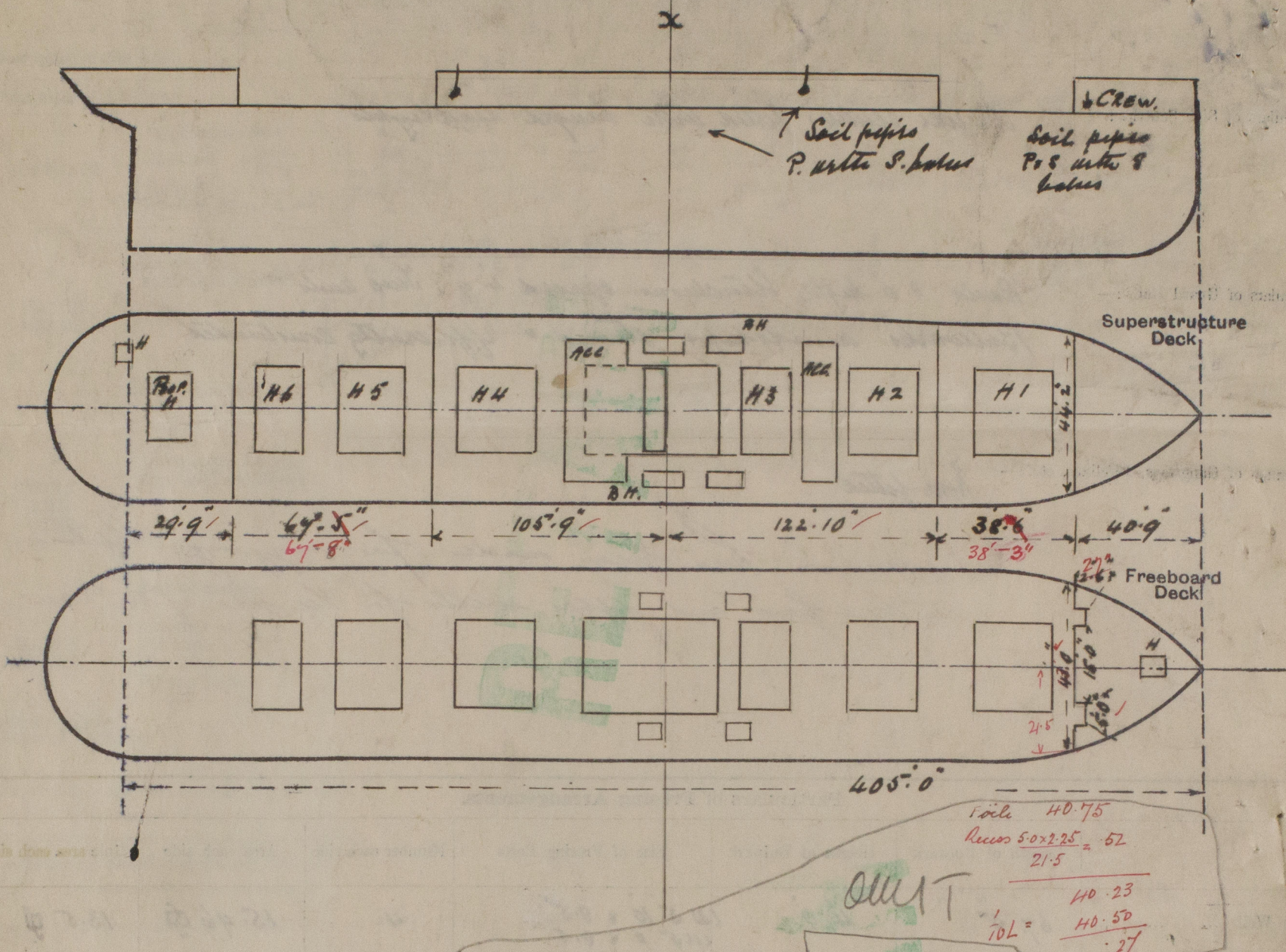
Particulars of Gangways, Lifelines, etc.:— *None fitted.*
Provision has been made for rigging lifelines in the fore and after wells for the use of the crew.

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	67' 5"	4'0"	13' 5"10" x 8'5" 11'5"0" x 8'5"	4	15.96 sq	13.5 sq ✓
Forward Well	38'6"	4'0"	5'10" x 8'5"	3	12.42 sq	10.35 sq ✓
State position of each freeing port } After Well:— FROM B.B.H. 5'0" - 22'1" - 39'10" = 56'10" Height of sill 14" (F. and A. position and height above deck edge) } Forward Well:— " 5'0" - 15'9 1/2" - 27'6 1/2" " " " 14" State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— <i>Nil</i> ✓						
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	44"	38"	6 x 3 x .31"	29"	L. to B.	5'0" x 3'0"	23"	7'6"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead	✓	31"	4 x 3 x .32"	30"	B. to B.	5'0" x 3'0"	18"	7'6"
Bridge, Forward Bulkhead	44"	38"	9 x 3 x .44" B.H.	30"	L. to B.	4'6" x 2'10"	23"	7'6"
Forecastle Bulkhead	✓	25"	3 1/2 x 3 x .32"	30"	✓	4'6" x 2'0"	19"	7'6"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks	38"	32"	3 x 3 x .32"	28"	✓	4'10" x 2'0"	19"	7'3"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	38"	32"	3 x 3 x .32"	28"	✓	4'10" x 2'0"	19"	7'6"
Deckhouses on Flush Deck Ships ...								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	<i>Storm boards 2 1/2" W.P. for full height of opening in riveted channels.</i>
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	<i>Storm boards 2 1/2" W.P. for full height of opening in riveted channels.</i>
Bridge, Forward Bulkhead	<i>Steel hinged WT door fitted with studs & nuts, efficiently secured.</i>
Forecastle Bulkhead	<i>Steel hinged doors, operated from either side.</i>
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks	<i>Steel hinged doors, operated from either side.</i>
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	<i>Steel hinged doors, operated from either side.</i>
Deckhouses on Flush Deck Ships ...	

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:—



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

General Surveyed afloat. Incaste sheathed full length 3" P. Hatches on sidley casing 5'8" x 19'10" casing 9'3" x 46" B.A. rest angles 3" on hatches on Poop 3'0" x 4'0" casing 13'2" x 40" rest angles 2 1/2". Two bunker hatches on each side of fore-casing 6'8" x 3'0" casing 33' x 38" rest angles 3". Fore-casing hatches in bunker space 3'0" x 2'6" casing 9'3" x 46" B.A. All the above hatches fitted with plate bottom 2 1/2" x P. covers + two tarpaulins, the hatch in fore, to fore peak 4'6" x 3'6" casing 3'3" x 28" angle 2 1/2" x P. covers. No Cleats, bottom re. Escape hatches at corners of two 2'3" x 2'0" hatches on the deck 2'0" x 2'0" casing 9'3" x 46" B.A. with hinged wood cover 2" W.P. Secured with bolts + butterfly nuts. Tarpaulins Secured by lashings. Exposed ends of weather deck hatches fitted with stoppers + stays.

8650 tons DW at 24'9" draught = 44 T.P.I.

8250	24'0"	=	-
7750	23'0"	=	43 1/2
7200	22'0"	=	43
6700	21'0"	=	-

Builder's name and yard number

H. Gray & Co Ltd.

Names of sister ships

Owners

Port Shipping Co Ltd (Sir W. Repner & Co Ltd agents)

Fee £ 12 : 15 : 0

Received by me



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