

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey NEWCASTLE-ON-TYNE
Date of Survey 17th + 18th Sept 1924
Name of Surveyor G. Brown

B.T. COPY WRITTEN.

Hawthorn Leslie's No 535. Ship's Name "MIDDLESBRO"	Port of Registry and Nationality. <u>Newcastle U.K.</u>	Official Number. <u>148093</u>	Gross Tonnage.	Date of Build. <u>1924</u>	Particulars of Classification. + 100 A1 (contemplated) Revised Rules.
Number in Register Book <u>89786</u>					

Registered dimensions from Ship's Register.	LENGTH. <u>225.2</u>	BREADTH. <u>32.2</u>	DEPTH. <u>14.3</u>	UNDER DECK TONNAGE. <u>725.27</u>
Length on LOADLINE.	<u>225.0</u>	Frame Depth ^{4 1/2} Rule <u>7</u> Ceiling ⁴ Sheer <u>NIL</u> <i>span ceiling felled</i>	Ceiling ^{fitted} Sheer <u>NIL</u>	Peak Tanks } Incl. <u>shallow floors in BR + 10 in deck room</u>
CORRECTED DIMENSIONS.	<u>225.</u>	<u>31.7</u>	<u>14.3</u>	<u>715.27</u>

Moulded Depth as measured..... **16'6"**

Addition for Keel below base line for draught record..... one inches.

NOTE. - If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>225</u>
Length in Table	<u>198</u>
Difference	<u>27</u>
Correction for 10ft., Table A.	<u>10</u> Table C.
× Difference divided by 10	<u>2.7</u> (if required.)
If 1/10ths length covered divide by 2	<u>1.35</u> = <u>+ 1 1/4</u>

Co-efficient of fineness..... .7092

Any modification necessary [Para. 4 (a) to (e)]* CDB .02

Co-efficient as corrected68

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered601.614

Thickness of usual wood deck, less stringer 2 3/8 - 2 1/4 - 2"

Sheer { Stem..... 42 1/2 } 64 1/2 ÷ 2 = 32 1/4 ... Mean
at { Sternpost ... 22 }

Sheer at 1/2 of the length from { Stem 24 } 36 ÷ 2 = 18 ... Mean
{ Sternpost 12 } 55 = 32 1/2

Gradual mean Sheer 32.48 32.72

Standard mean Sheer [Table, Para. 18] 32 1/2 32.50 Correction

Difference..... 1/2 .02 ÷ 4 = 1/80

§ If limited as Para. 18 (f) NIL

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>32</u>
Round of Beam	<u>8</u>
Normal round.....	<u>8</u>
Difference	<u>÷ 2 =</u>
Proportion of Deck uncovered (Para. 19)	<u>✓</u>

NOTE. - The round of beam should be reported on the full breadth of vessel at the gunwale.

Rise in Sheer from amidships { At front of bridge house..... ✓
[Para. 18 (e)] { At after end of forecastle ✓

¶ Fall in Sheer { ÷ 2 =
Para. 18 (d) {

Length uncovered Correction

Freeboard, Table A	<u>2'8 1/2</u>
Correction for Sheer	<u>0 Nil</u>
Correction for Length	<u>+ 1 1/4</u>
Allowance for Deck Erections	<u>2'9 3/4</u>
Correction for Round of Beam.....	<u>- 10 9/16</u>
Correction for fall in Sheer (if any).....	<u>1'11 1/4</u>
Correction for Iron Deck (if required)	<u>2'0</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	<u>1-10</u>
Other Corrections (if any)	<u>✓</u>

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C.....	<u>0 - 7 1/2</u>
Correction for Length, if required (Para. 12, 13, and 14)	
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>2'8 1/2</u>
Difference.....	<u>2'1</u>
Percentage as below.....	<u>42.1%</u> <u>404</u>
	<u>- 10.525</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } + x.65
91.845

Allowance for Deck Erections - 9 3/4

Forecastle.....	Length. <u>28.6</u>	Length allowed. <u>27.0</u>	Height. <u>7'0"</u>
Bridge House	<u>13.4</u>	<u>13.4</u>	<u>7'0"</u>
† Raised Qr. Dk.....	<u>96.3</u>	<u>96.3</u>	<u>3'10"</u>
Poop.....			
Total		<u>136.7</u>	<u>138.06</u> .. <u>.614</u>
Length of Ship	<u>225.0</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>42.1%</u>	<u>.604 =</u>	<u>401%</u>

Winter Freeboard	<u>1'8" 10</u>
Summer Freeboard	<u>1-6 3/4 7 3/4</u>
Indian Summer Freeboard	<u>1-4 1/2 5 1/2</u>
N. A. Winter Freeboard	<u>1-4 1/2 2-1 1/2</u>
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ^{steel} wood or iron deck with side.	<u>1 1/2</u>
Winter Freeboard from deck line	<u>1-10 1/2 11 1/2</u>
Summer " " "	<u>1-8 1/4 9 1/4</u>
Indian Summer " " "	<u>1-4 1/2 4</u>
N. A. Winter " " "	<u>2-0 1/2 3</u>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :-

Fresh Water Line above centre of Disc	<u>3 1/2</u> <u>3 1/2</u>
Indian Summer Line " " "	<u>2</u> <u>4 1/2</u>
Winter Line below " " "	<u>2 1/2</u> <u>2 1/2</u>
Winter North Atlantic Line " " "	<u>6</u> <u>4 1/2</u>

State dimensions of freeing port area on back of this form.

The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water-line the vessel's draught at time of survey, and also the usual load draft forward and aft, should be reported.

© If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

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23 SEP 1924

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Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? Yes Bridge House? Yes Forecastle? Yes
 To what height do the Reverse Frames extend? deep frames
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? Covered by bridge aft end
 Give particulars of the means for closing the openings in Bulkhead ✓
 Is the Poop or Raised Quarter Deck connected with the Bridge House? Yes Has the Bridge House an efficient Bulkhead at the fore end? Yes
 Give particulars of the means for closing the openings in Bulkhead no openings
 What is the thickness of the Bridge Front plating? .34 and Coaming plate? .36 34 deep foundation angle
 Give scantlings and spacing of the Stiffeners 6 1/2 x 3 x .34 BA 2' 6" spacing
 Are bracket plates fitted at each end of the Stiffeners? Yes Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? Yes
 Has the Bridge House an efficient Iron Bulkhead at the after end? Yes
 How are the openings closed? Companions in top half - teak doors
 Is the Forecastle at least as high as the main or top-gallant rail? Yes Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? Yes
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? Covered by Bridge + Quarter deck
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed?
 Give thickness of plating; scantlings and spacing of Stiffeners
 What is the height of the exposed Casings? Are suitable means provided for closing all openings in them in bad weather?
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— Yes - as appd

Position and Size.	No 1 upper deck 32' 7" x 19'		No 2 32' 7" x 19'		No 3 Q.D.K. 25' 9" x 18'					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"				
	Thickness	Sides	.44	.44	.44	.44				
		Ends	.44	.44	.44	.44				
SHIFTING BEAMS OR WEB PLATES.	Number	6	6	6	5					
	Section and Scantlings	17 x 36	same	17 x 36	same	16 x 36	same			
	Material	4x3 x 44		4x3 x 44		4x3 x 44				
* FORE AND AFTERS.	Number									
	Section and Scantlings	✓		✓						
	Material									
HATCHES Thickness	3"		3"		3"					
Remarks										

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

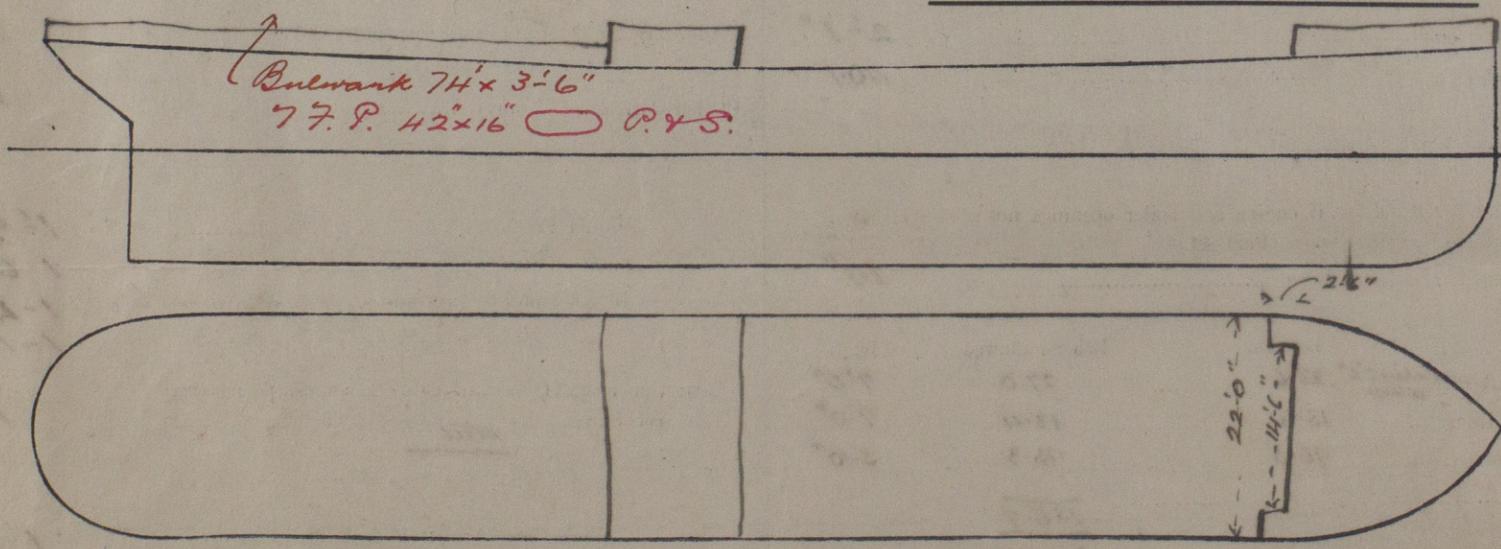
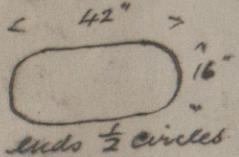
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? Strake between Main and Bridge Sheerstrakes?

Delete the words ✓ The Crew are are not, berthed in the bridge house.
 that do not apply ✓ The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory. garrulous (but)

Length of Bulwarks in well 84' 86.7' x 3.5 = 303 ft.
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = 17.83 Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = 29.69 Sq. ft.
 3.5 x 1.33 x 7 }
 Total deficiency or excess = 12.89 Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel Copies of appd plans are in London etc
 Builder's name and yard number R. W. Hawthorn Leslie & Co. Ltd No. 535
 Names of sister vessels ✓
 Owners Tyne-Tees S.S. Co. Ltd
 Address Newcastle

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