

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. L. Brown**

Hawthorn Leslie's No 535.
Ship's Name

"MIDDLESBRO"

Number in Register Book

89786

Port of Registry
and Nationality.
**Newcastle
U.K.**

Official
Number.

148093

Gross
Tonnage.

Date of Build.

1924

Particulars of Classification.

**+ 100 A1 (contemplated)
Revised Rules.**

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	225.2	32.2	14.3	725.27
Length on LOADLINE.	225.0	Frame Depth ^{4 1/2} 7' 7" Ceiling fitted - Rule "4" Sheer Nil ✓ Span ceiling fitted - 5.0 for frames	Peak Tanks } Incl. ✓ shallow floors in BR + cargo 10' cargo room	
CORRECTED DIMENSIONS.	225.	31.7 ✓	14.3 ✓	715.27

Co-efficient of fineness.....

0.7002

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

CDB 02

Co-efficient as corrected

0.68 ✓

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

Sheer at 1/2 of the length from { Stem 24 } $36 \div 2 = 18$... Mean
{ Sternpost 12 } $53 = 32 1/2$

Gradual mean Sheer 32.48 32.48 32.72

Standard mean Sheer [Table, Para. 18] 32.50 Correction

Difference..... $2 \div 4 = 0.5$

§ If limited as Para. 18 (f) Nil

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

Fall in Sheer { Para. 18 (d) } $\div 2 =$

Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C..... 0 - 7 1/2

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) 2' 8 1/2"

Difference 2' 1"

Percentage as below 42.1% 40.4

- 10.525

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

Allowance for Deck Erections 9.845

- 9.34

	Length.	Length allowed.	Height.
Forecastle, including 2' 6" wings	28.6	27.0 28.36	7' 0"
Bridge House	13.4	13.4 ✓	7' 0"
† Raised Qr. Dk.	96.3	96.3 ✓	3' 10"
Poop			
Total		136.7 138.06	11' 6 1/4

Length of Ship 225.0

Corresponding percentage { 42.1% } $60.4 = 40.1\%$

(Para. 11, 12, 13, or 14)

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

Fresh Water Line above centre of Disc

Indian Summer Line " " "

Winter Line below " " "

Winter North Atlantic Line " " "

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

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

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 225

Length in Table 198

Difference 27

Correction for 10ft., Table A. 10 Table C.

x Difference divided by 10 2.7 (if required.)

If 1/10ths length covered divide by 2 $1.35 = + 1 1/4$

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered 60.4 61.4

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

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 32

Round of Beam 8

Normal round..... 8

Difference $\div 2 =$

Proportion of Deck uncovered (Para. 19) ✓

Freeboard, Table A 2' 8 1/2"

Correction for Sheer Nil

Correction for Length + 1 1/4

Allowance for Deck Erections 2' 9 3/4"

Correction for Round of Beam..... - 10 9/14

Correction for fall in Sheer (if any)..... - 11 1/4 2' 0"

Correction for Iron Deck (if required) - 2 1/4

Additions for non-compliance with provisions of Para. 11 (d) and (e) † 1 - 10

Other Corrections (if any) ✓

Winter Freeboard 1' 8" 10

Summer Freeboard 2 1/4

Indian Summer Freeboard 1 - 4 1/4 7 3/4

N. A. Winter Freeboard 3 1/2

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. $1 1/2$

Winter Freeboard from deck line 1' 10 1/2 11 1/2

Summer " " " 1 - 2 1/4 9 1/4

Indian Summer " " " 1 - 4 1/4 5 1/2

N. A. Winter " " " 2 - 2 1/2 3

Winter Freeboard from deck line 1' 10 1/2 11 1/2

Summer " " " 1 - 2 1/4 9 1/4

Indian Summer " " " 1 - 4 1/4 5 1/2

N. A. Winter " " " 2 - 2 1/2 3

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N. A. Winter " " " 2 - 2 1/2 3

Winter Freeboard from deck line 1' 10 1/2 11 1/2

Summer " " " 1 - 2 1/4 9 1/4

Indian Summer " " " 1 - 4 1/4 5 1/2

N. A. Winter " " " 2 - 2 1/2 3

† 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 amidships 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 sternpost.

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? *3/4* and Coaming plate? *3/4 3/4 all 3/4 deep foundation angle*
Give scantlings and spacing of the Stiffeners *6 1/2 x 3 x 3/4 BA 2' 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? *Compartments 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"				
	Sides	4/4	4/4	4/4	4/4	4/4				
	Ends	4/4	4/4	4/4	4/4	4/4				
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	4 x 3 x 4/4		4 x 3 x 4/4		4 x 3 x 4/4				
* 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.

Length of Bulwarks in well

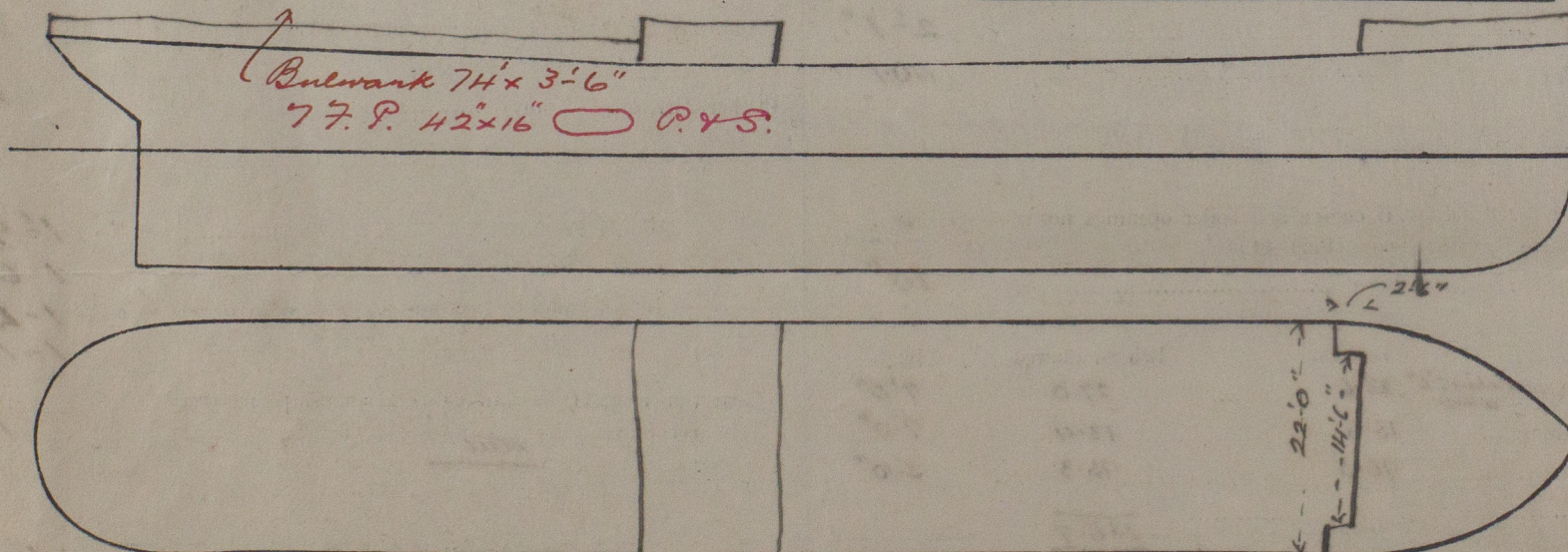
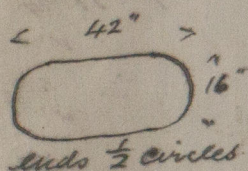
Area of Freeing Ports required by Para. 11 (e) each side of vessel =

Ft. Tenths. Ft. Tenths. No.

3.5 x 1.33 x 7

Freeing Ports (each side of vessel) = 29.69 Sq. ft.

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

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

Appx Fee £ 4 : 0 : 0

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