

27. COPY WRITTEN.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No. **41601**

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 GLASGOW
Date of Survey BUILDING
Name of Surveyor D. H. C. Meek

ARROSSAN C.B. No 316

Ship's Name

'LANGFJORD'

Number in Register Book

Port of Registry and Nationality.
Liverpool
CHRISTIANIA
NORWEGIAN

Official Number.

147175

Gross Tonnage.

9642

Date of Build.

1921

Particulars of Classification.

+100 A1 SHELTER DECK WITH FWD (CONTEMPLATED)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	212.5	33.7	12.5	712.56

Length on LOADLINE.	Frame Depth Rule	Ceiling Fitted	Peaks Included
211.75	3 1/2	4.47	Tanks

SPARRING FITTED 1 1/2 3" TANK DROOP
1 1/2 x 2 = 26"
+ 12"

CORRECTED DIMENSIONS.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	211.75	33.45	13.04	712.56

Co-efficient of fineness.....

.77

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

C.D.B. - .02

Co-efficient as corrected

.75Sheer { Stem..... **60 1/2**
at { Sternpost ... **25 1/2**

85.55 ÷ 2 = 42.87 Mean **48.19**
31.17
36.14
1.44

Sheer at 1/2 of the length from { Stem **33 1/2**
Sternpost **19 1/2**

53 ÷ 2 = 26.5 Mean **48.19**
45.583
31.17 Correction
14.38 ÷ 4 = 3.59
- 3 1/2

Gradual mean Sheer [Table, Para. 18]

31.17

Standard mean Sheer [Table, Para. 18]

31.17

Difference.....

14.38 ÷ 4 = 3.59

§ If limited as Para. 18 (f)

- 3 1/2Rise in Sheer { At front of bridge house.....
from amidships { [Para. 18 (e)] At after end of forecastleFall in Sheer { Para. 18 (d) }
Length uncovered

÷ 2 =
✓

Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....

0 - 6 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 - 0 3/4

Difference

1 - 6 1/2

Percentage as below.....

93.77**14.58**

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

Allowance for Deck Erections

- 1 - 5

Length.	Length allowed.	Height.
Forecastle..... 184 - 10 1/2	184.43	7 - 6
Bridge House 4 - 0	✓	
Forecastle Opening 22 - 10 1/2	22 - 0	7 - 6
Poop.....		
Total	206.43	
Length of Ship	211.75	
Corresponding percentage { (Para. 11, 12, 13, or 14) 93.7%	209.09	= .987

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

Fresh Water Line	above centre of Disc
<u>Indian Summer Line</u>	" " "
Winter Line	below " "
Winter North Atlantic Line	" " "

If the frame, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of outer plating should be reported if possible. The height of the vessel to be taken from the level of the top of the amidship beam. The total standard mean sheer means the sheer measured at the stem and stern of the vessel's length from stem and stern-post.

Moulded Depth as measured..... **14' 6"**

Addition for Keel below base line for draught record.....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..... **211.75**

Length in Table

174.00

Difference

37.75

Correction for 10ft., Table A.

1.0

× Difference divided by 10

3.775 (if required.)

If 1/10ths length covered divide by 2

1.89**Ans + 2**

CORRECTION FOR IRON DECK.

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

Thickness of usual wood deck, less stringer

3 1/2 - 34 - 3 1/4

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... **33.33**

Round of Beam

8 1/2

Normal round.....

8 3/8

Difference

1/8 ÷ 2 = .06

Proportion of Deck uncovered (Para. 19)

Freeboard, Table A

Correction for Sheer

2 - 4 1/4**3 1/2****2 - 0 3/4****2****2 - 2 3/4****1.5****0 - 9 3/4**

Correction for Round of Beam.....

Correction for fall in Sheer (if any).....

Correction for Iron Deck (if required)

- 3 1/4

Additions for non-compliance with provisions of

Para. 11 (d) and (e)†

Other Corrections (if any) **To conform to present assignment****+ 1 1/2****0 - 8**

Winter Freeboard

Summer Freeboard

0 - 8**0 - 6****0 - 10**Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood iron deck with side.

Winter Freeboard from deck line

Summer " " " "

0 - 9 1/2**0 - 7 1/2****0 - 11 1/2****0 - 7 1/2****3 1/2****2****4**

† 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 draft at time of survey, and also the usual load draft forward and aft, should be reported.

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No. **41601**

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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 **GLASGOW**
Date of Survey **BUILDING**
Name of Surveyor **D. H. C. Ince**

Bar Marthen Coast
ADDRESS **NO 316**
Ship's Name

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Particulars of Classification.
+100 A1 SHELTER DECK WITH FBD (CONTEMPLATED)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	212.5	33.7	12.5	712.56
Length on LOADLINE.	211.75	Frame Depth 5 Rule " 3 1/2	Ceiling FITTED Sheer 4.47	Peaks INCLUDED Tanks
	SPARRING FITTED	1 1/2	3" TANK DROOP	
	1 1/2 x 2 = 26		+ 12	
CORRECTED DIMENSIONS.	211.75	33.45	13.04	712.56

Co-efficient of fineness..... **.77**
Any modification necessary [Para. 4 (a) to (e)]* **C.D.B. - .02**
Co-efficient as corrected **.75**

Sheer { Stem..... **60 1/2**
at { Sternpost ... **25 1/4**
Sheer at 1/8 of the length from { Stem **33 1/2**
Sternpost **19 1/2**
Gradual mean Sheer **45.583**
Standard mean Sheer [Table, Para. 18] **31.17**
Difference..... **14.38**
§ If limited as Para. 18 (f) **- 3 1/2**

Moulded Depth as measured..... **14' 6"**
Addition for Keel below base line for draught record..... inches.

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... **211.75**
Length in Table **174.00**
Difference **37.75**
Correction for 10ft., Table A. **1.0** Table C.
× Difference divided by 10 **3.775** (if required.)
If 1/10ths length covered divide by 2 **1.89** **Ans + 2**

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10ths length covered **ALL COVERED**
Thickness of usual wood deck, less stringer **3 1/2 - 3 4 - 3 1/4**

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... **33.33**
Round of Beam..... **8 1/2**
Normal round..... **8 3/4**
Difference **1/8**
Proportion of Deck uncovered (Para. 19) **÷ 2 = .06**

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

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

Rise in Sheer (At front of bridge house.....) (At the stern or the lowest side scuttle windows, state vertical distance from top of deck at stern to top of deck at front of bridge house.)
[Para. 18] The following information is to be given in all Cases of vessels of 100 tons and upwards.
What is the thickness of the Bridge Sheerstrake?

Delete the words that do not apply { The Crew are, are not, berthed
The arrangements to enable the crew to pass to and from the vessel
Length of Bulwarks in well
Area of Freeing Ports required by Para. 11
Ft. Tenth. Ft. Tenth. No.

Freeboard
Corrections
Freeboard
Difference
Percentage

Freeboard
Corrections
Freeboard
Difference
Percentage

Freeboard
Corrections
Freeboard
Difference
Percentage

Freeboard
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Correction for Length
Correction for Iron Deck
Correction for Round of Beam

Correction for Length
Correction for Iron Deck
Correction for Round of Beam

Correction for Length
Correction for Iron Deck
Correction for Round of Beam

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Correction for Length
Correction for Iron Deck
Correction for Round of Beam

Correction for Length
Correction for Iron Deck
Correction for Round of Beam

Correction for Length
Correction for Iron Deck
Correction for Round of Beam

Do all the Frames extend to the top height in the Poop? YES Raised Quarter Deck? YES Bridge House? ALTERN. Forecastle? YES
 To what height do the Reverse Frames extend? B.A.
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? YES
 Give particulars of the means for closing the openings in Bulkhead NO OPENINGS
 Is the Poop or Raised Quarter Deck connected with the Bridge House? YES Has the Bridge House an efficient Bulkhead at the fore end?
 Give particulars of the means for closing the openings in Bulkhead
 What is the thickness of the Bridge Front plating? and Coaming plate?
 Give scantlings and spacing of the Stiffeners
 Are bracket plates fitted at each end of the Stiffeners?
 Has the Bridge House an efficient Iron Bulkhead at the after end? YES
 How are the openings closed? BOLTED PLATES.
 Is the Forecastle at least as high as the main or top-gallant rail? ON SHELTER DECK
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? YES.
 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 30 COAMING 26 PLATING. STIFFS. 3x2 1/2 x 30
 What is the height of the exposed Casings? 7'3" Are suitable means provided for closing all openings in them in bad weather? YES.
 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.

Position and Size.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Item.								
COAMING.								
Height above top of Deck	32	30	32	30				
Thickness { Sides.....	48	48	48	48				
{ Ends.....	46	46	46	46				
SHEETING BEAMS OR WEB PLATES.								
Number.....	7	7	6	6				
Section and Scantlings.....								
Material.....	STEEL		STEEL					
* FORE AND AFTERS.								
Number.....								
Section and Scantlings.....								
Material.....								
HATCHES Thickness.....	2 1/2	2 1/2	2 1/2	2 1/2				
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 not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, satisfactory.

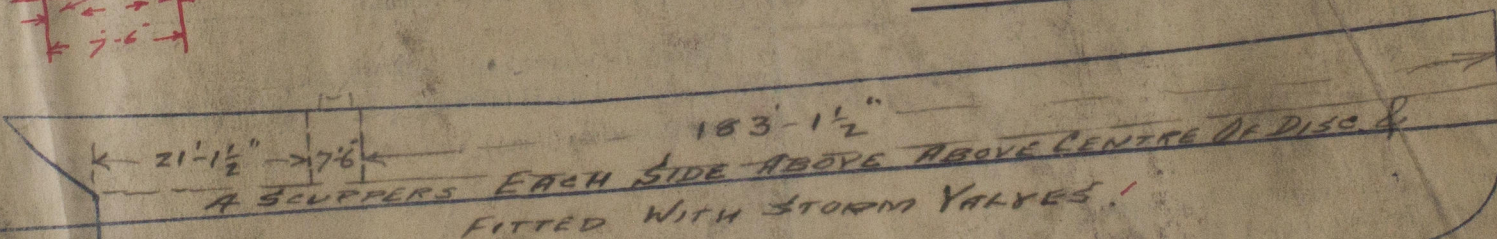
Length of Bulwarks in well 7'6"

Area of Freeing Ports required by Para. 11 (a) each side of vessel = 5.5 Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports
 (each side of vessel)

3.0 x 2.0 x 1

Total deficiency or excess = .5 Sq. ft.



FREEBOARD ASSIGNED BY NORSKE VERITAS, CHECKED
 & FOUND IN ORDER 16.12.21
 TONNAGE OPENING 4'x12'
 EFFICIENT COVERS

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

PLANS OF MID. & LONG. SECTION ENCLOSED
 WHICH PLEASE RETURN.

Owners NORWEGIAN AMERICAN SS CO LTD

Addrs KRISTIANIA

Received by me See Report.



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