

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

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

Port of Survey *Hamburg*
Date of Survey *25th March 1931*
Name of Surveyor *H. Gossing*

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
"Horden"	Bergen Norway	-	8440	1931	+100 A1 Carrying Petroleum in bulk; exempt.

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	465.2	59.7	35.4	7742.79
Length on LOADLINE.	461.64	Frame Depth $9\frac{1}{2}$ Rule " $7\frac{1}{2}$	Ceiling +20 Sheer +06	Peak } incl Tanks } DB-dft +77 +49 tons Deck floors +15 (under)
	$2 \times 2\frac{1}{2} = 46$ spanning +33	$2.3/4$		
CORRECTED DIMENSIONS.	461.64	59.57	35.66	7791.79 7834.29

Moulded Depth as measured... $25 - 0$
 $- 3 \frac{1}{2}$

 $34 - \cancel{34} 9''$

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.

$$\begin{array}{r} 35' - 0' \\ 1' - 2\frac{1}{4} \\ \hline 36' - 2\frac{1}{4} \\ 9\frac{3}{4} \\ \hline 35' - 4\frac{1}{2} \end{array}$$

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	461.64
Length in Table	446.5 417
Difference	45.14 44.64
Correction for 10ft., Table A.	1.7 Table C.
× Difference divided by 10	7.67 5.9 (if required.)
If τ_{10} the length covered divide by 2	+7.67 1

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{7}{10}$ ths length covered
Thickness of usual wood deck, less stringer 3 1/2
allowed is reduced M.D.

CORRECTION FOR ROUND OF BEAM.

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

Breadth at Gunwale amidships.....	59.5		round of beam should be report- ed on the full breadth of vessel at the gunwale.
Round of Beam	14.17		
Normal round.....	14.87		
Difference .....	.70	$\div 2 =$	.35
Proportion of Deck uncovered (Para. 19) .....	.68		+ 1/4 =

Co-efficient of fineness..... ~~79%~~ **79.9**
Any modification necessary } **Shallow bottom frames**
[Para. 4 (a) to (e)]* }
Co-efficient as corrected **80.82**

Shear { Stem..... 77.8 } $113.2 \div 2 = 56.6$...Mean
at { Sternpost 58.4 }
 $36 \overline{) 2.29}$
- .06

Shear at $\frac{1}{2}$ of the length from { Stem 43.9 } $64.3 \div 2 = 32.15$...Mean
{ Sternpost 20.4 }

Gradual mean Shear 32.15 $\div 55 = 58.43$

Standard mean Shear [Table, Para. 18] 33.69 Correction
Difference..... 1.54 $\div 4 = +.38$

§ If limited as Para. 18 (f) $+ \frac{1}{2}$

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

Fall in Shear	} $\div 2 =$	✓
Para. 18 (d)		
Length uncovered		Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... $9'-9\frac{1}{4}" - 3'-3"$

Correction for Length, if required (Para. 12, ~~13~~, and 14)

Freeboard by Table A. corrected for ~~shear~~, and for length, }
if required (Para. ~~11~~, 12, 13, and 14) }

Difference

Percentage as below.....

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

Allowance for Deck Erections

	Length.	Length allowed.	Height.
Forecastle.....	40-3 $\frac{3}{4}$	40.31	8.0
Bridge House .....	.....	
† Raised Qr. Dk.....	.....	
Poop.....	108-1.....	108.08	8.0
Total		148.39 = 8	3214
Length of Ship		461.64	
Corresponding percentage {	20.56% ✓		= 2.57 height
(Para. 11, 12, 13, or 14) {			

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

Correction for Steel Deck (if required)

Additions for non-compliance with provisions of { }

Para. 11 (d) and (e) ‡ { }

Other Corrections (if any)

Winter Freeboard	9 - 7 1/2 8 3/4
Summer Freeboard	9 - 7 1/2 2 1/2
Indian Summer Freeboard	8 - 7 1/2 8 1/4
N.A. Winter Freeboard	✓

Correction necessary because clearside amidships, measured
in accordance with the Statute is not taken at the
intersection of the ~~wood~~ or steel deck with side. } + 1 3/4" ✓ 28/3/82

Winter Freeboard from deck line	9 -	9 10 1/2
Summer " " " "	9 -	8 4 1/4
Indian Summer " " " "	8 -	8 10
A. A. Winter " " " "		8 10

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

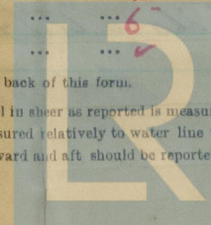
Fresh Water Line			above centre of Disc	...	...	...	...	...
Indian Summer Line	"	"	"	...	...	...	...	...
Winter Line			below	"	"	...	...	...
Winter North Atlantic Line	"	"	"	...	..	...	...	...

Q 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 stern-post. In vessels having poops and forecasts, it means the sheer measured at points distant one-fourth of the vessel's length from stem and stern-post.

† 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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relatively to the straight
essel's draft at time of

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Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *Deep framing*
 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 *Strong steel hinged doors*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no*
 What is the thickness of the ~~Bridge~~ *Poop* Front plating? *.40* and Coaming plate? *.40*
 Give scantlings and spacing of the Stiffeners *Bulk angle stiffeners 230 x 90 x 12 mm, spaced 625 mm*
 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? *yes*
 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? *by a Poop*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*
 Give thickness of plating; scantlings and spacing of Stiffeners *yes*
 What is the height of the exposed Casings? *7'7" above Poop deck* 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.		No. 10' x 11'		19' x 7' x 4'							
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"		31 1/2"							
	Thickness { Sides.....	.44		.40							
	Ends.....	.44		.40							
SHIFTING BEAMS OR WEB PLATES.	Number										
	Section and Scantlings	none		none							
	Material										
* FORE AND AFTERS.	Number										
	Section and Scantlings	none		none							
	Material										
HATCHES Thickness		Steel		Steel							
Remarks.....		covers		covers							

* 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 ~~main~~ *Poop only* *gangway filled*
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~not~~ satisfactory. *open rails*

Length of Bulwarks in well

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

Ft. Tenths. Ft. Tenths. No.

x x
x x

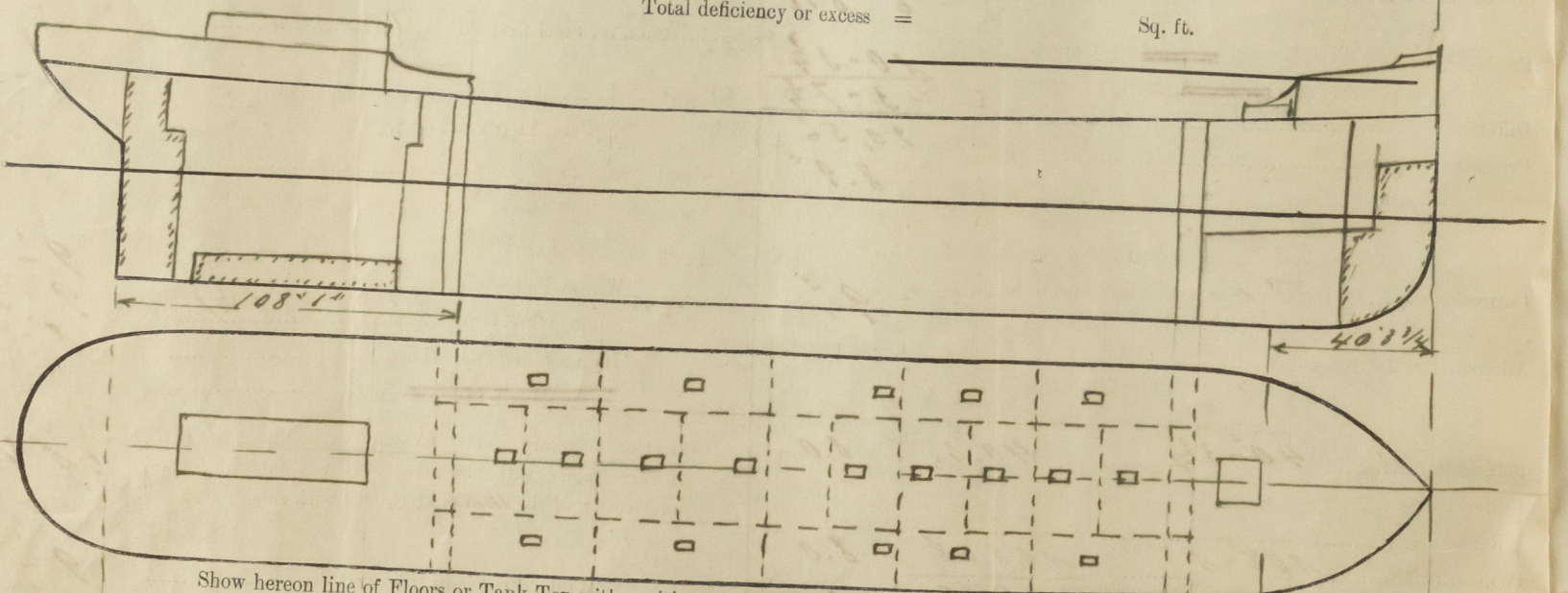
Freeing Ports
(each side of vessel)

Total deficiency or excess

Sq. ft.

Sq. ft.

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 *Deutsche Werft. A.G. Yard No. 144*

Names of sister vessels *Yard No. 143.*

Owners *Skids - A/S "Norden" H. Kuhnle*

Address *Bergen*

Fee £ *14 : 0 : 0*

Received by me



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