

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

*Ref. 29305*  
*Ref. 29305*

PARTICULARS IN RESPECT OF STEAM SHIPS HAVING ~~SPAR~~ OR AWNING DECKS.

Port of Survey *Gothenburg*  
Date of Survey *22 Feb. 1921*  
Name of Surveyor *H. Johnson*

Ship's Name. "KIRUNA"  
MESSRS OTAYERKENS No 355  
Port of Registry and Nationality. STOCKHOLM SWEDISH  
Official Number.  
Gross Tonnage. 10081  
Date of Build. 1921  
Particulars of Classification. "shelter deck" with freeboard (contemplated)

Registered dimensions from Ship's Register.	LENGTH. 394.42	BREADTH. 52.23	DEPTH. 30.83	UNDER DECK Tonnage. 5119.5
Length on LOADLINE	385'	Frame Depth/Rule 6 1/2	Ceiling + .20	Peak Tanks
CORRECTED DIMENSIONS.	385	52.87	32.07	5119.5

Moulded Depth as measured *26'-0 3/4"* UPPER Main Deck.  
*34'-0 3/4"* Awning Deck.  
*Upper deck parallel to awning deck all fore & aft.*

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

Co-efficient of fineness ..... *.784*  
Any modification necessary [Para. 4 (a) to (e)\*] } *CDK*  
Co-efficient as corrected ..... *.76* say *.74 to U.S.*

CORRECTION FOR LENGTH:—  
Length of Ship on Load Line.... *385*  
Length in Table ..... *312.75*  
Difference..... *72.25*  
Correction for 10ft..... *7*  
× Difference ÷ 10 = *5.05 + 5*

Allowance for strength in excess of Lloyd's rules = *17 1/2*

State particulars— *Sup built angle framing strengthened topsides 2 complete steel decks Vessel designed for carrying ore*

Height of 'Tween Decks..... *8'-0"*  
(From top of beam to top of beam at side)  
Correction for Height of 'Tween Decks in Spar-decked Ships.....

Freeboard Table B & C .....	<i>2 .. 10 1/4</i>
Correction for Length.....	<i>+ 5</i>
Correction for Height of 'Tween Decks in Spar-decked Ships.....	<i>3 .. 3 1/4</i>
	<i>8 .. 0</i>
	<i>11 .. 3 1/4</i>
Correction for Strength in excess of Lloyd's rules. <i>and to correspond with designed draught</i> .....	<i>1 .. 5 1/2</i>
	<i>9 .. 9 3/4</i>
Correction for Iron Deck if required.....	<i>3 1/2</i>
	<i>9 .. 6 1/2</i>

Sheer at Stem ..... *108"* at  $\frac{1}{4}$  length from Stem ..... *56"*  
Sternpost... *44* " " " Sternpost... *21"*  
Drop in Sheer abaft amidships..... *4"*

Round of Spar-deck Beam..... *13"*  
" " Main-deck " .....

	Length	×	Height.	State if open or closed at ends.
Forecastle .....	✓	×		
Bridge.....	✓	×		
Poop.....	✓	×		

Other Corrections (if any).....	
Winter Freeboard.....	<i>9 .. 6 1/2</i>
Summer Freeboard.....	<i>9 .. 0 1/4</i>
Indian Summer Freeboard.....	<i>8 .. 6 1/4</i>
N. A. Winter Freeboard.....	✓
Correction necessary because clearside amidships measured in accordance with the Statute is not taken at intersection of the wood or iron deck with side	<i>1 3/4</i>
Winter Freeboard from Deck Line .....	<i>9 .. 8</i>
Summer " " " .....	<i>9 .. 2</i>
Indian Summer " " " .....	<i>8 .. 8</i>

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

Fresh Water Line above centre of Disc ... ..	<i>6 1/2</i>
Indian Summer Line " " " .....	<i>6</i>
Winter Line below " " " .....	<i>6</i>
Winter North Atlantic Line " " " .....	✓

*8.3.21*

NOTE.—All vessels equal in strength to Lloyd's Spar-decked rule, or which, although in excess of that rule, do not come up to Lloyd's requirements for Ships of full scantlings to the upper deck, are to be considered as Spar-decked Ships, the freeboard for which will vary with their strength. All vessels equal in strength to Lloyd's Awning-decked rule, or which, although in excess of that rule, do not come up to Lloyd's requirements for a Spar-decked Vessel, are to be considered as Awning-decked Ships, the freeboard for which will vary with their strength.

Do all the Frames extend to the top Height in the Spar deck?  Awning deck?

Do all the Frames extend to the top height in the Poop?  Bridge House?  Forecastle?

To what height do the Reverse Frames extend? *Bulk angle framing*

Has the Poop an efficient Iron Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop connected with the Bridge House?  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?  Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

Is the Forecastle at least as high as the main or top-gallant rail?  Has the Forecastle an efficient Iron or Wood Bulk'd. at after end?

Are the Engine and Boiler openings covered by a Bridge, Poop, or enclosed by a Strong Iron or Steel Deckhouse? *Engine casing protected by steel deck house see attached sketch*

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 *11" coaming 9" casing stiffeners 75" x 75" 8 1/2" @ 30"*

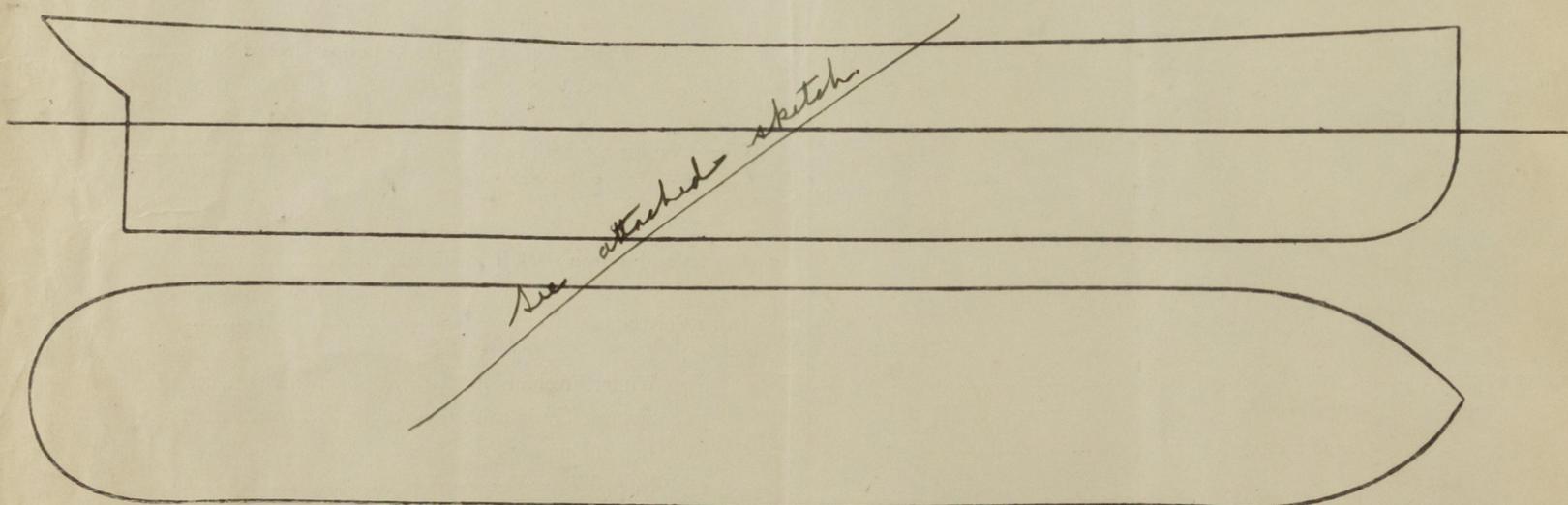
What is the height of the exposed Casings?  Are suitable means provided for closing all openings in them in bad weather?

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:— *see particulars below*

Position and Size.	N <sup>o</sup> 1 23'-3" x 24'-1"		N <sup>o</sup> 2 29'-9" x 28'-0 1/2"		N <sup>o</sup> 3 8'-3" x 24'-11 1/2"		N <sup>o</sup> 4 25'-6" x 28'-0"		N <sup>o</sup> 5 23'-3" x 24'-1"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	32" S 36" C	32" S 36" C		32" S 36" C		32" S 36" C		32" S 36" C	
	Thickness	Sides	.50	.50	.50	.50	.50	.50	.50	.50
		Ends	.46	.46	.46	.46	.46	.46	.46	.46
SHIFTING BEAMS OR WEB PLATES.	Number	3	5	3 fitted F+A	4	3	4	3	3	
	Section and Scantlings	5 7/8 x 3 x .46 24-17 1/2 x .44 5 7/8 x 3 x .46	6 1/4 x 3 x .48 26-19 1/2 x .46 6 1/4 x 3 x .48	3 x 3 x .40 16 x .42 3 x 3 x .40	6 1/4 x 3 x .48 24-19 1/2 x .46 6 1/4 x 3 x .48	5 7/8 x 3 x .46 24-17 1/2 x .44 5 7/8 x 3 x .46				
	Material	steel	steel	steel	steel	steel				
* FORE AND AFTERS.	Number									
	Section and Scantlings	None	None	None	None	None	None	None	None	None
	Material									
HATCHES Thickness	3"		3"		3"		3"		3"	
Remarks										

\* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

(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.)



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 *No tonnage openings are fitted in shelter deck. There are neither pining ports nor scuppers through ships side in tween decks. Scupper pipes are led from upper deck to bilges. There are no sidelights or other openings below upper deck. This vessel is a duplicate of the S.S. 'G.F. LILJEVALCH' the builders No 354.*

Particulars of the Registered Dimensions & Tonnage will be wired to London as soon as vessel is ready  
 Owners *Infrikaktieb. Grangsborg, Oselosund.*  
 Address *Stockholm.*

Fee \$ 14 800:20

Received by me

