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Index No. 33318.
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Port of Survey Elsinore
Date of Survey While building
Name of Surveyor J.F. Buchanan

Ship's Name. S/S. ARIEL
Number in Register Book HALSINGÖR No 188.
Port of Registry and Nationality. Helsingfors Finnish
Official Number. ✓
Gross Tonnage. 2197.69
Date of Build. 1929
Particulars of Classification. 100 A1 with freeboard (contemplated)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK Tonnage.
	79.3 m	12.26 m	7.54	1991
	260.3	40.22	24.73	
Length on LINE	260.0	Frame Depth $2\frac{1}{2}$ Rule	Ceiling <u>fixed</u> Sheer +.21	Peak Tanks /
		2×3 = .50	Total tank top 25.42	for Round to B at Ends + 15 tons.
LENGTH ON LINE	260.0'	39.72'	25.63'	2006

Moulded Depth as measured 20' 0" Main Deck. 27-6
 " " " 27' 6" Spar or Awning Deck. 28-11
2-11
25-5

Efficiency of fineness 758
 Modification necessary } C. D. B.
 [Para. 4 (a) to (e)*] }
 Efficiency as corrected 74 to Upper Deck
 Block coeff. .69 say .72 - 2nd

Addition for Keel below base line for draught record 1.04 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 Load Line.... 260'
 Length in Table 240'
 Difference 20'
 Correction for 10ft. 6'
 × Difference ÷ 10 = 1.20
 = +1 1/4"

Allowance for strength in excess of Lloyd's rules =

Height of 'Tween Decks..... 7' 6"
 (From top of beam to top of beam at side)
 Correction for Height of 'Tween Decks in Spar-decked Ships.....

Freeboard Table B or C 1' 3 1/2"
 Correction for Length..... + 1 1/4"
 1' - 4 3/4"
 Correction for Height of 'Tween Decks in Spar-decked Ships..... 7' - 6"
 8' - 10 1/4"

Mean $\frac{48 + 24 + 55}{3} = 43.63$
 $\frac{36.0}{36} = .21$

Correction for Strength in excess of Lloyd's rules..... ✓
 Correction for Iron Deck if required..... - 3/2"
 8' - 7 1/4"

Sheer at Stem 60.75 at 1/4 length from Stem 33 } 48"
 Sternpost... 27.25 " " " Sternpost... 15 }
 Drop in Sheer abaft amidships.....

Other Corrections (if any).....
 Winter Freeboard..... 8' - 7 1/4"
 Summer Freeboard..... 3 1/2" 8' - 3 3/4"
 Indian Summer Freeboard..... 8' - 0 1/4"
 N. A. Winter Freeboard..... 8' - 9 1/4"

Round of Spar-deck Beam..... 10
 " " Main-deck " 10

Correction necessary because clearside amidships measured in accordance with the Statute is not taken at inter-section of the ~~wood~~ steel deck with side } + 1 3/4"

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

Winter Freeboard from Deck Line 8' - 9"
 Summer " " " 8' - 5 1/2"
 Indian Summer " " 8' - 2"
 N.A. Winter " " 8' - 11"

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

Fresh Water Line	above centre of Disc	5"
Indian Summer Line	" " "	3 1/2"
Winter Line	below " " "	3 1/2"
Winter North Atlantic Line	" " "	5 1/2"

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

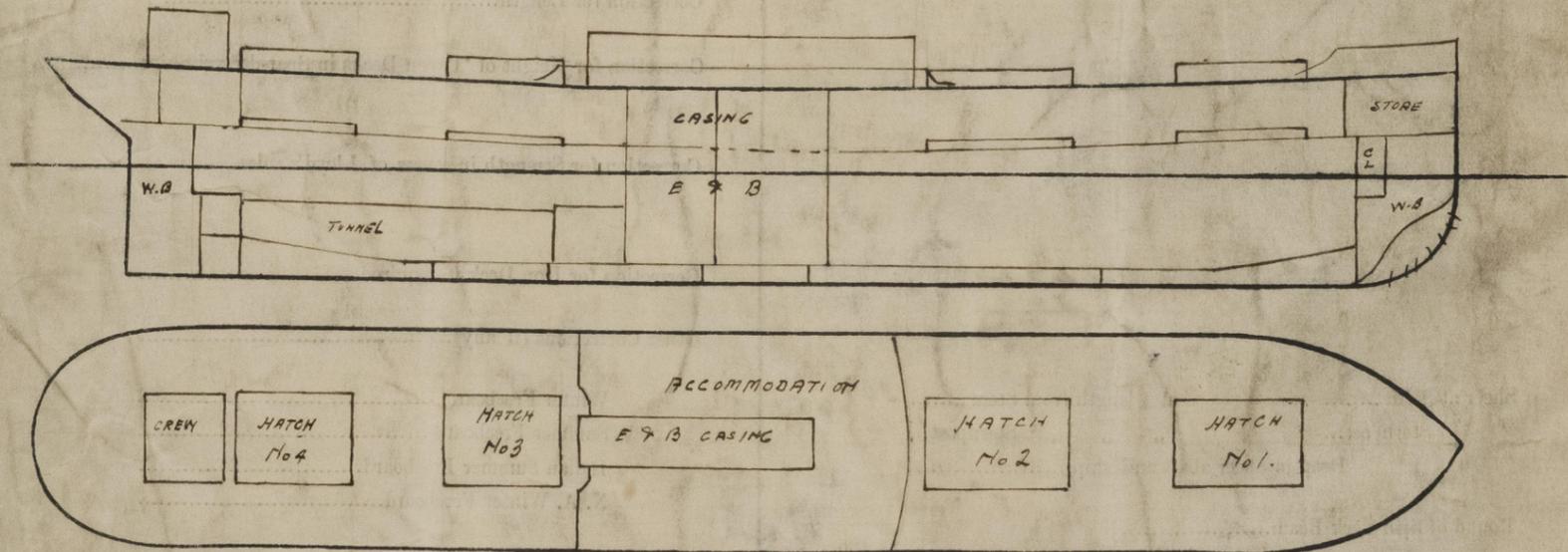
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Do all the Frames extend to the top Height in the Spar deck? *Superstructure*
 Do all the Frames extend to the top height in the Poop? Bridge House? Awning deck? *Yes*
 To what height do the Reverse Frames extend? *No Reverse frames* Forecastle?
 Has 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? *by Superstructure Deck enclosed by strong steel Deckhouse above*
 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? *7-6"* 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*

Position and Size.		No 1 - 25'0" x 14'0"		No 2 - 30' x 16'		No 3 - 22'6" x 16'		No 4 - 22'6" x 16'		Ship.	Rule.
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING	Height above top of DECK	3'0"		3'0"		3'0"		3'0"			
	Thickness	Sides	.44	.44	.44	.44	.44	.44			
		Ends	.44	.44	.44	.44	.44	.44			
SHIFTING BEAMS OR WEB PLATES	Number	5		5		3		3			
	Section and Scantlings	I 280 x 280 x 12.10 11 x 11 x 27-4		I 280 x 280 x 12.10 11 x 11 x 47-4		I 240 x 240 x 11.18 9 1/2 x 9 1/2 x 43/31		I 240 x 240 x 11.18 9 1/2 x 9 1/2 x 41 1/2			
	Material	Steel									
* FIRE AND APERTURES	Number	NONE		NONE		NONE		NONE			
	Section and Scantlings										
	Material										
HATCHES	Thickness	3" ✓		3" ✓		3" ✓		3" ✓			
	Remarks	pine		pine		pine		pine			

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

(If the sill of the lower 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 *Intermediate frames throughout - Strengthened for ice*

Builder's name and yard number *Helsingors Jernskib & Maskinbyggeri No 185*
 Names of sister vessels *S/S SIRIUS No 187*
 Owners *Finska Ångfartyg Aktieföretaget Helsingfors*
 " Address

Fee £ *will be charged with first entry report.* Received by me

