Syd 26/10/32 Rpt. 11b.

EXT

B.T. CONV. WRITTEN.

5 SEP 1930

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(For London Office only.)

Lloyd's Register of Shipping. ABN. 16270.

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: Aberdeen
Date of Survey: while building
Name of Surveyor: J. Richardson

Birchgrove Park
Ex

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
"BIRCHGROVE"	Sydney. N.S.W. British	157592	660 APPROX.	1930	✠ 100. A. 1. (CONTEMPLATED)

Number in Register Book

	Length.	Breadth.	Depth.	Under Deck Tonnage.
Registered dimensions from Ship's Register.	153·4	34·1.	10.75.	450·34.
Length on Loadline.	153·16	Frame Depth 4 1/2 (mean) / Rule " 3 1/2 / 1 1/4 ×2 = -·21	Ceiling +·20 NOT FITTED / Sheer +·57	Peak Tanks } INCLUDED
		No Cargo Battens +·33		
Corrected Dimensions.	153·16	34·22	11·52	450·34.

Moulded Depth as measured ..... 12' 6 3/4"

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

Addition for Keel below base line for draught record ..... 1" ..... inches.

12'-6 3/4
8 1/2
13'-3
2'
10'-7

Correction for Length.

Length of Ship on Loadline ..... 153·16
~~Length in Table~~ ..... 150·75
Difference ..... 2·41
Correction for 10ft., Table A. ..... ·9 Table C. ·5
× Difference divided by 10 ..... ·22 (if required.) ·12
If 6/10ths length covered divide by 2 ·11
For Para 14 +1/4"

Correction for Iron Deck.

Proportion covered, if less than 7/10ths length covered ..... ·5985
Thickness of usual wood deck, less stringer ..... 3 1/4" 1·94 -2"

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 ..... 34' 0 3/4"
Round of Beam ..... 8 1/2"
Normal round ..... 8 1/2"
Difference ..... ✓ ÷ 2 = ...
Proportion of Deck uncovered (Para. 19) .....

Co-efficient of fineness ..... ·746
Any modification necessary [Para. 4 (a) to (e)]* } C.D. BOTTOM = ~~-·02~~
Co-efficient as corrected ..... ·73

Sheer at { Stem ..... 58" / Sternpost ... 30 } 88" ÷ 2 = 44" ...Mean
45·91
25·32
36 | 20·59
·57

Sheer at 1/8 of the length from { Stem 34" / Sternpost 16 1/2 } 50 1/2" ÷ 2 = 25 1/4" ...Mean
÷·55 = 45·91

Gradual mean Sheer ..... allowed 44·95 25·25
Standard mean Sheer [Table, Para. 18] ..... 25·32 15·19 Correction
Difference ..... 19·63 10·06" ÷ 4 = 4·91 Para 11
§ If limited as Para. 18 (f) ..... 15·19/2 ÷ 4 = 1·90 Para 14
-5" Para. 11
-2" Para. 14

Rise in Sheer from amidships [Para. 18 (e)] { At front of ~~bridge house~~ QUARTER D^K. 1" / At after end of forecastle ..... 28" }

¶ Fall in Sheer Para. 18 (d) } ÷ 2 =
Length uncovered ..... Correction

Freeboard, Table A ..... 22·19 ..... 1'-10 1/4"
Correction for Sheer ..... } - 9 3/4"
Correction for Length ..... } 1'-0 1/2"
Allowance for Deck Erections ..... }
Correction for Round of Beam ..... ✓
Correction for fall in Sheer (if any) ..... ✓
Correction for Iron Deck (if required) ..... - 2"
0'-10 1/2"
Additions for non-compliance with provisions of Para. 11 (d) and (e) ‡ ..... ✓
Other Corrections (if any) ..... ✓

Allowance for Deck Erections :—

	Para 11	Para 14
Freeboard, Table C.	4"	4"
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)	1'-5 1/4	1'-10 1/2"
Difference	1'-1 1/4"	1'-6 1/2"
Percentage as below	40%	32%
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	+1/2" Para 11	
Allowance for Deck Erections ...etc.	- 9 3/4"	

Para 11 -5" -4 3/4" = -9 3/4" a) 6/10 th
Para 14 -2" +1/4 -6" = -7 3/4" a) 4/10 th
For erections ·5985 = -9 3/4"
-5·30 5·92
+·51
4·79

	Length.	Length allowed.	Height.
Forecastle	26'·6"	25·18	7'·6"
~~Bridge House BOAT D^K~~	~~45'·10"~~	✓	~~7'·6"~~
† Raised Qr. Dk.	66'·6"	66·50	3'·6"
Poop	✓	-	-
Total		91·68	
Length of Ship		153·16	= ·5985

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

Winter Freeboard ..... 0'-10 1/2"
Summer Freeboard ...(1":2") 1 1/2" ..... 0'-9"
~~Indian Summer Freeboard~~ .....
~~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 1/2"

S.T.B. 5/9/30

Winter Freeboard from deck line ..... 1'-0"
Summer " " " " ..... 0'-10 1/2"
~~Indian Summer~~ " " " " .....
~~N. A. Winter~~ " " " " .....

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck :— 0'-10 1/2"

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

✠ 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 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 stern-post.

‡ 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.

2m,9,22. T.

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Do all the Frames extend to the top height in the Poop? ✓ Raised Quarter Deck? Yes. Bridge House? ✓ Forecastle? Yes.

To what height do the Reverse Frames extend? none.

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? ✓ 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~~ R.Q.D^K Bulk'd. with Bulwarks? Yes.

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? 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? ~~Boat Deck and Steel Deck Houses.~~ Raised 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 Plating ·40". Coamings ·30". Stiffeners 3"×3"×·30". 44" apart.

What is the height of the ~~exposed~~ Casings? 7'·9" Are suitable means provided for closing all openings in them in bad weather? Yes. Steel Doors.

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.	58'·8"×21'·11½"		COAL HATCH Pts. 7'·4"×5'·6"							
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	4'·0"	as approved	18"							
Thickness { Sides	·44"		·40"							
Thickness { Ends	·40"		·40"							
SHIFTING BEAMS OR WEB PLATES. Number	11									
Section and Scantlings	⊥ 18¾"-9"×·36" ⊥ 4½"×3"×·46"	-do-	✓							
Material	Steel.				"					
* FORE AND AFTERS. Number	none		✓							
Section and Scantlings										
Material										
HATCHES Thickness	3" White Pine		2½" W. Pine							
Remarks	Solid.		Solid.							

* 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 that do not apply { The Crew *are*, ~~*are not*~~, berthed in the ~~bridge house~~. Side houses aft. ✓
{ The arrangements to enable them to get backwards and forwards from their quarters *are*, ~~*are not*~~ satisfactory.

Length of Bulwarks in well ~~62'·4½"~~ 60·64. (~~Less Deckhouse to R.Q.D^K front.~~) ~~60·3" Bulwarks.~~

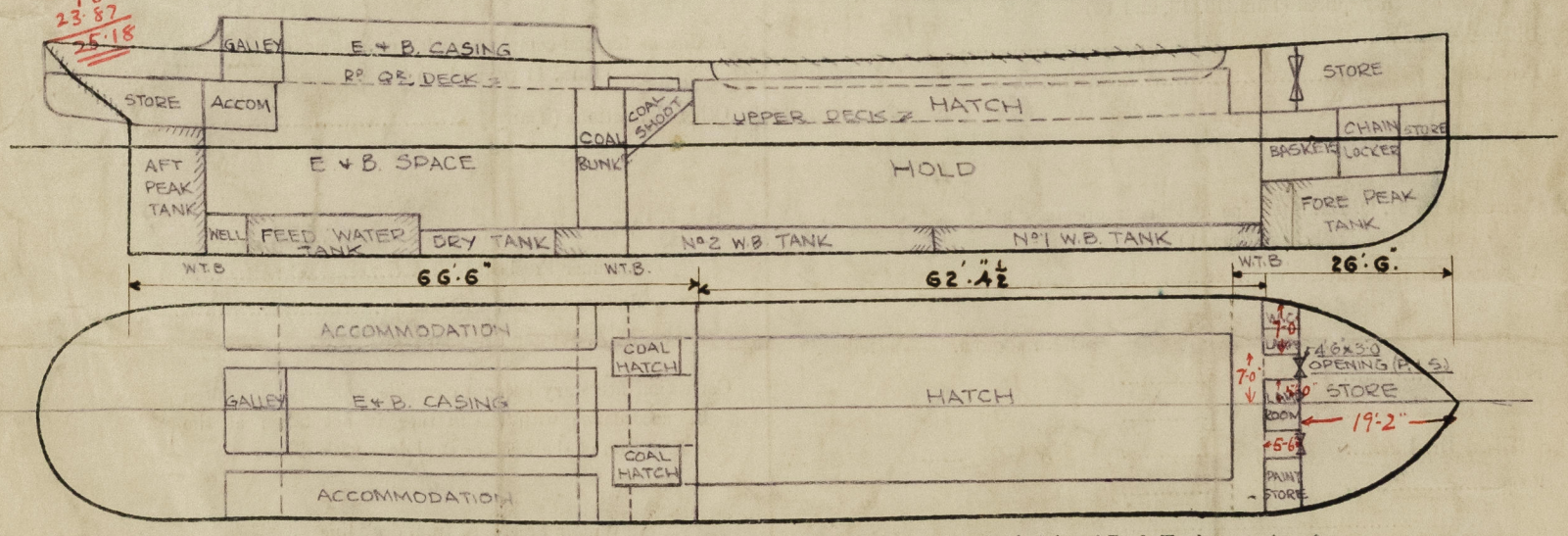
Area of Freeing Ports required by Para. 11 (*e*) each side of vessel = 12·75 ·63 Sq. ft.

	Ft.	Tenths.		Ft.	Tenths.		No.
U.D^K	3.	0	×	1.	5	×	4
R.Q.D^K	3.	0	×	1.	5	×	1.

Freeing Ports (each side of vessel) = 18·00 Sq. ft.

Total ~~deficiency or~~ excess = 5·~~25~~ ·37 Sq. ft.

Fcle 19·16
Closed Sidehouse 7·0×5·5 = 2·75
14·0
Curtainhouse 5·0×5·5 = 1·96
14
23·87
26·50
2 | 2·63
1·31
23·87
25·18
Total



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 Profile, Section & Plan of Wash Ports enclosed for reference.

Builder's name and yard number J. Lewis & Sons Ld. Aberdeen. No. 122.

Names of sister vessels ✓

Owners R. W. Miller & Co. Ld.

" *Address* Scottish House. 19. Bridge St. Sydney. N.S.W.

Fee £ 3 : 6 : 8. *Received by me* See F. C. Report.

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