

2Dks., R.O.Dk.,
and Pt. Awing. Dk.

IRON OR STEEL STEAMER.

No. 27672.
MAY 1 1909

State if Report is also sent on the Machinery of the Vessel

Date of completion of Report April 30th 1909 Port of Glasgow

Date, First Survey 13th Oct. 1908. Last Survey April 27th 1909.

Survey held at Glasgow
On the Steel Screw Steamer "MINDEROO"

Rig Schooner

Master A. Mills

Year of appointment 1909

Built at Glasgow

When built 1909 Launched March 9th 1909

By whom built G. Goull & Co. Ltd.

Owners Bethell & Co. (Mgns)

Managers H. J. Industrial & Marine Co. Ltd.

Residence London

Port belonging to Glasgow

TONNAGE under

Tonnage Deck 2009.75

Do. of Poop 18.53

Do. of Bridge House 84.94

Do. of Forecastle 273.04

Do. of Houses on Deck 49.99

Do. of excess of Hatchways 183.58

Do. above Crown of Engine Room 2719.83

Gross Tonnage 157.19

Less Crew Space 2562.71

Less above Crown of Engine Room 878.35

TONNAGE FOR FEES 1635.80

Less Engine Room 56.86

Navigation Spaces

Register Tonnage 1635.80

is cut on Beam

ONE OR TWO DECKED VESSEL.

CLASS 100 A1

Half Breadth (moulded) 21.96

Depth from upper part of Keel to top of Main Deck Bms. 21.41

Girth of Half Midship Frame (as per Rule) 39.70

1st Number 83.07

Length on deck from after part of stem to fore part of stern post 318

2nd Number 26416

Proportions—Breadths to Length 7.23

Depths to Length—Upper Deck to top of Keel 14.8

Destined Voyage Australia

Surveyed while Building, Afloat, & in Dry Dock

Dimensions of Ship per Register, Length, 320.2 breadth, 44.35 depth, 18.2 Moulded Depth, 20 ft. 6 ins. Round of Beam, Actual 11 ins.

FRAMING.

	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule	Inches per Rule	20ths per Rule
FRAME, Angles, L & E Bars, for 1/2 length amidships	6 1/2	3 1/2	10	6 1/2	3 1/2	10
Do. for 1/2 at each end	6 1/2	3 1/2	9	6 1/2	3 1/2	9
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	7	3 1/2	3 1/2	7
Spacing of Frames from centre to centre	24			24		
EVERSED FRAME, Angles	3 1/2	3 1/2	9	3 1/2	3 1/2	9
DEEP FRAMING, depth of girder	9 1/2	3 1/2	20	9 1/2	3 1/2	20
LOOKS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" in way of Engines and Boilers	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" thickness at the ends of vessel	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" depth at 1/2 the half breadth, as per Rule	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" height extended at the Bilges	3 1/2	3 1/2	9	3 1/2	3 1/2	9
LOOKS & BRACKETS, in Cell Dble Bottoms	7			7		
" state if flanged (top & bottom)						
" Spacing	24			24		
ENTRE GIRDER, in Double Bottom, depth and thickness	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Angles, Top	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Bottom	4	4	12	4	4	12
IDE GIRDERS, number on each side & thickness	One	7	One	7		
" state if flanged (top & bottom)						
" Angles	3	3	7	3	3	7
MARGIN PLATE, depth (exclusive of flange) and thickness	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Angles to Outside Plating	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Floors	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Height of Floors at the Bilges	4 1/2	6 1/2	4 1/2	6 1/2		
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" thickness in Engine and Boiler space	3 1/2	3 1/2	9	3 1/2	3 1/2	9
" Remainder in Holds	3 1/2	3 1/2	9	3 1/2	3 1/2	9
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9 1/2	3 1/2	11	9 1/2	3 1/2	11
" Angles on Upper Edge	9 1/2	3 1/2	11	9 1/2	3 1/2	11
" Spacing	48			48		
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9 1/2	3 1/2	13	9 1/2	3 1/2	13
" Angles on Upper Edge	9 1/2	3 1/2	13	9 1/2	3 1/2	13
" Spacing	48			48		
BEAMS, Hold, Plate or Tee Bulb	7	5	8	7	5	8
" Angles on Upper Edge	7	5	8	7	5	8
" Spacing	48			48		
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Angles on Upper Edge	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Spacing	48			48		
BEAMS, Bridge or Pt. Awing. Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Angles on Upper Edge	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Spacing	48			48		
BEAMS, Main Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Angles on Upper Edge	8 1/2	3 1/2	10	8 1/2	3 1/2	10
" Spacing	48			48		
PILLARS, In between Decks, Size and Spacing	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Hold	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Quarter, 'tween Dks., " "	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" in Hold	2 1/2	2 1/2	8	2 1/2	2 1/2	8
WEB FRAMES, In Fore Body, No. and Spacing	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Brdth. & Thickness	2 1/2	2 1/2	8	2 1/2	2 1/2	8
WEB FRAMES, In E. & B. Space, No. & Spacing	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Brdth. & Thickness	2 1/2	2 1/2	8	2 1/2	2 1/2	8
WEB FRAMES, In After Body, No. and Spacing	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Brdth. & Thickness	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" No. of Side Stringers	2 1/2	2 1/2	8	2 1/2	2 1/2	8
" Size of Angles or Tee Bars to Web Frames	2 1/2	2 1/2	8	2 1/2	2 1/2	8
BRACKET PLATES to Stringers between	2 1/2	2 1/2	8	2 1/2	2 1/2	8

FORGINGS AND CASTINGS.

	Inches in Ship	Inches per Rule	20ths per Rule
KEEL, Bar or Side Plates depth and thickness	10 x 2 1/4	10 x 2 1/4	
STEM, moulding and thickness	10 x 6	10 x 6	
STERN-POST for Rudder do. do.	10 x 6	10 x 6	
" for Propeller	9 3/8	8 1/2	
MAIN PIECE of Rudder, diameter at head, do. at heel	7 1/2	6 1/2	
RUDDER, how constructed Single Plate 21/20			
Can the Rudder be unshipped afloat? Yes			
KEELSONS AND STRINGERS.			
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
" Rider Plate			
" Bulb Plate to Intercoastal Keelson			
" Horizontal Plates on Floors			
" Angles			
SIDE KEELSON, Angles			
" Bulb or Plate above floors for Ing.			
" Intercoastal Plate for length			
" Attached to outside plating with Angle			
BILGE KEELSON, Angles			
" Bulb or Plate above floors for Ing.			
" Intercoastal Plate for length			
" Attached to outside plating with Angle			
BILGE STRINGER Angles			
" Bulb Plate for length			
" Intercoastal Plate for length			
" Attached to outside plating with Angle			
SIDE STRINGER Angle	6 1/2	4 1/2	10
" Bulb or Intercoastal Plate for full Ing.	3 1/2	3 1/2	8
" Attached to outside plating with Angle	3 1/2	3 1/2	8
Main and Raised Quarter Deck Stringer Plate, breadth and thickness	4 5	10	4 5
" Angle on ditto	4 x 4	9	4 x 4
Tie Plates, outside Hatchways			
Diagonal Tie Plates on Bms. No. of Pairs			
Main Dk* Iron or Steel for full Ing.		8.7	8-7
R. Q. Dk* Iron or Steel for full Ing.			
Wood Deck, Material & thickness			
Lower Deck Stringer Plate, breadth and thickness	5 3	9	4 1
" Angles on ditto, No.	4 x 4	9	4 x 4
Tie Plates, outside Hatchways			
Deck* Material and thickness		7-6	7-6
HOLD STRINGER Plate			
" Angles on ditto, No.			
Poop Deck Stringer Plate, breadth & thickness	3 0	7	3 0
" Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
" Tie Plates	10	7	10
" Deck, Material and thickness	5 x 3	7-6	5 x 3
Bridge or Pt. Awing Deck Stringer Plate, breadth and thickness	4 0	9	4 0
" Angle on ditto	4 1/2 x 4 1/2	10	4 1/2 x 4 1/2
" Tie Plates	7	7	7
Deck, Material and thickness	5 x 2 1/2	7-6	5 x 2 1/2
SHARP Deck Stringer Plate, brdth & thcknss	5 3	10	4 0
" Angle on ditto	4 1/2 x 4 1/2	10	4 1/2 x 4 1/2
" Tie Plates	7-6	7-6	7-6
Deck, Material and thickness	5 x 3	7-6	5 x 3

	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
BULKHEADS.					
W.T. BULKHEADS	5	5	7-6	8 x 3 1/2	20 BA 6 FLANGE 30
PARTITION GAULKED	2	6	5 x 3 1/2	7-6	5 FLANGE 33
LONGITUDINAL	7	Bulkheads	5	water-tight	
Are the outside Plates doubled two spaces of Frames in length?					
Are the Sluice Valves and Watertight Doors in efficient working order?					

3537-0282

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES.				BUTTS.						
	AMIDSHIP.		FORWARD.		AMIDSHIP.		FORWARD.		EDGES.		BUTTS.		BUTTS.		BUTTS.				
	AMIDSHIP.		FORWARD.		AMIDSHIP.		FORWARD.		EDGES.		BUTTS.		BUTTS.		BUTTS.				
	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAPS.	IF LAPPED.				
FLAT PLATE KEEL.....	40	19	29	10	40	19	29	10	Double	6	1	4	Quadruple	1 1/8	4	Full			
(If Bar Keel, state Riveting)																			
GARBOARD OR A STRAKE	54	13	11	11	54	13	11	11	"	5 1/4	7/8	3 3/4	Quadruple	7/8	3 3/8	9			
B "		10	10	9		10			"	"	"	"	Quadruple	"	3 1/2	12			
C "		11	10	10		11			"	"	"	"	"	"	"	"			
D "		11	10	9		11			"	"	"	"	"	"	"	"			
E "		12	9	10		12			"	"	"	"	"	"	"	"			
F "		11	9	9		11			"	"	"	"	"	"	"	"			
G "		12	9	9		12			"	"	"	"	"	"	"	"			
H "		11	9	9		11			"	"	"	"	"	"	"	"			
J "	44	13	10	10	44	13			"	"	"	"	Treble	"	3 1/2	9			
K "		12	7	7		12			"	"	"	"	Quadruple	"	3 1/2	12			
L "	40	13	7	7	40	13			"	"	"	"	Treble	"	3 1/2	9			
M "																			
N "																			
O "																			
P "																			
DOUBLING OF Flat Plate Keel	Keel plate increased in thickness																		
Length and thickness of Bilges																			
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES					7					7	Single	2 1/2	3/4	3	Double	3/4	2 1/2	5	Full
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES	12x9								10x9	Double	5 1/4	7/8	3 3/4	Treble	7/8	3/4	3 1/2	7 1/2	Full
FORECASTLE SIDES																			
LENGTHS OF PLATING	11 frame spaces																		

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c. *Open Hearth Steel*
Hallside, Golden Square, Motherwell, S.S.
Mossy, Glasgow S.S.
Calgell, Lanarkshire, Port Talbot.
 Has the Steel been tested as required by the Rules. *Yes*

FRAMES extend in one length from centre line to Marginal House to Shade Bridge Prop. *ordinary*
 REVERSED FRAMES on floors and frames extend from Bulk Angle frames to Shade in way *ordinary*
 of Bridge Upper Deck front & aft of same with webs in Shade transverse decks.

MASTS, SPARS, &c.									
LOWER MASTS.	Fore	Main	Mizzen	DIAMETER AND THICKNESS.		No. of Plates in round.	ANGLES.		RIVETING.
				At Partners.	Heel.		Number.	Size.	
Fore	Steel	63-6	25-11/10	24-11/10	19-1/10	2	✓	✓	Double
Main	Steel	63-6	25-11/10	24-11/10	19-1/10	2	✓	✓	Double
Mizzen	Steel	63-6	25-11/10	24-11/10	19-1/10	2	✓	✓	Double
Topmasts, Yards and Remainder of Spars	Masts increased in thickness in lieu of doubling								
Rigging, Material and Size, Shrouds	42 steel wire								
Sails.	One	Suit of working	Sails and the following spare sails	None					

ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.
		Owts. qrs. lbs.	Owts. qrs. lbs.	Owts. qrs. lbs.	Owts. qrs. lbs.		Owts. qrs. lbs.	Owts. qrs. lbs.	
11603	1st Bower	47	3	14	14	40	14	21	45
11650	2nd "	47	1	14	14	40	14	21	45
11699	3rd "	40	2	21	21	36	6	1	38
	Collective weight	135	3	21	21				128
34708	Stream	12	3	14	3	14	8	1	12
34709	Kedge	8	3	3	1	2	8	2	14
		8	3	3	1	2	8	2	14
Certificates for cast steel leads produced.									

CHAIN CABLES.									
Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE		Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.
			Length.	Diam.					
35829	135 2	72	100	2 1/2	100	100	100	100	100
35830	135 2	72	100	2 1/2	100	100	100	100	100
			100	2 1/2	100	100	100	100	100
			100	2 1/2	100	100	100	100	100

Boats. 7 Life Boats & 1 Dingy
 Pumps, Number 2 Downman pumps
 Windlass is Clarke Chapman & Co.
 Engine Room Skylights—How constructed? *Steel plates & angles*
 What arrangements for deadlights in bad weather? *Steel shutters & bulbs eyes*
 Coal Bunker Openings—How constructed? *Flush scuttles* How are lids secured? *Bayonet joint* Height above deck? *Flush*
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *5 scuppers each side & 2 freeing ports 24x20 1/2 each side*
 Ceiling in Holds, thickness and material *2 1/2 plates under hatches* Cargo Batts, thickness and material *2 1/2 plates*
 Cargo Hatchways—How formed? *Steel plates & angles* Hatches—If strong and efficient? *Yes*
 State size No. 1 Hatch (Forward) *15-11 x 13-11* No. 2 Hatch *21-11 x 13-11* No. 3 Hatch *19-11 x 13-11* No. 4 Hatch *15-11 x 13-11*
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *2 1/2 plates* No. of Crutches *High floors*
 Bulwarks, height above deck and description *Open rails* Main Rail and Stays, material and size *Round iron rail*
 The above is a correct description. *CHARLES CONNELL & CO., Limited* Surveyor's Signature *Henry A. Hibbs*
 Builder's Signature (here only) *William A. Marshall* Director.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)
See letters 17 6/9/08, 8/9/08, 14/9/08, 26/10/08, 26/10/08, 12/3/09.
 Workmanship. Are the butts of plating planed or otherwise fitted? *Planed & fitted*
 Is the riveted work properly closed? *Yes*

Are the liners between the frames and plates solid single pieces? *Yes*
 to plate, &c., conform well to each other? *Yes*
 from the faying surfaces? *Yes*
 Do any rivets break into or through the seams or butts of the plating? *A few*
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*
 Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par 24)? *Yes* State results of tests *Good*
 Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes* State results of tests *Good*
 General Remarks (State quality of workmanship, &c.) *Workmanship good*

This vessel has been built in accordance with the approved plans the Secy letters of above dates and otherwise in accordance with the rules for the class contemplated.
 A letter from owners regarding cementing is enclosed.
 3 Forging reports & 7 approved plans enclosed herewith.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *50.8* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *112* ft., F'castle *✓* ft.
 (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated
Shade deck fore & aft with poop & bridge on top of same.
 No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *2 Decks (steel) & Shade Deck (steel & S)*
 Official No. *325*; Signal Letters *None* State if Machinery is fitted aft *Yes*
 How are the surfaces preserved from oxidation? Inside *Oil, paint & cement* Outside *Oil & paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors.									
Where fitted.			Where fitted.						
	*Length.	Water Capacity.		*Length.	Water Capacity.		*Length.	Water Capacity.	
	Feet.	Tons.		Feet.	Tons.		Feet.	Tons.	
Double bottom, aft,	98	205	Fore peak tank,			Double bottom, under Engines and Boilers,			
Double bottom, if under Engines only,	24	67	After peak tank,			Double bottom, if under Boilers only,			
Double bottom, forward,	22	61	Deep tank, aft			Double bottom, forward,			
	126	263	Deep tank, forward						
			Other tanks, if fitted,						
Total capacity of double bottom						596			
* The wells are not to be included in the lengths of the tanks.									
State whether the above have been tested as required by the Rules									

Order for Special Survey No. *1100*
 Date *17th Oct. 1908*
 No. *325* in builder's yard
 Dates of Surveys had while building
1908. Oct. 13. 16. 19. 22. 29. Nov. 3. 9. 11. 16. 17. 19. 23. 30. Dec. 3. 8. 9. 11. 15. 18. 22. 24. 1909. Jan. 8. 11. 14. 20. 21. 26. 28. Feb. 1. 2. 4. 8. 9. 10. 16. 19. 21. 28. Mar. 1. 3. 4. 8. 10. 16. 17. 19. 24. 30. April 1. 7. 18. 19. 21. 23. 27
 Total No. of Visits *56*

The amount of Entry Fee *5* : : : Fees applied for, *3/5/1909*
 Special *89* : : : Received by me, *D. H. B.*
 Travelling Expenses, if any £ : : :
 State whether the Vessel has been built under Special Survey *Yes*
 I am of opinion this Vessel should be Classed *100 A1 Shade Deck*
 With, or without Freeboard, as condition of Class *without*
 Surveyor to Lloyd's Register of British and Foreign Shipping. *Henry A. Hibbs*

Committee's Minute *GLASGOW 6 MAY 1909*
 Character assigned *1-100 A1 (Steel)*
Shade Deck
409
Lloyds Assoc.
+ LMC 409
20
Ref Mch.
+ RMC 409
subscribed
see R.M. Report

3537-02824

