

State if Report is sent on the Machinery of the Vessel.....Yes.

Survey held at HELSINGBORG Date First Survey 30th September 1937 Last Survey 20th June 1938

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Steel Single Screw Steamer "MIRAMAR."

State Type *(Full Scantling, Complete Superstructure with or without Tonnage Openings)* *Full scantling.* State Type of Erections *R. G. B.*

CLASS \times 100 A 1 State if with freeboard } 170
as condition of Class }

Built at *Helsingborg*

Length from fore part of stem to after part of stern }
post on summer L. W. L. See Sec. 3 (1a) } L 255.

Launched 30th April, 1938 Yard No. 58

Total.....

Breadth (*greatest moulded*) **B** 38.6

Builders *Helsingborgs* *Ref* *A/B*

Gross Tonnage *SW.* 1544.17

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) } D 17.5

Book A/V

Register Tonnage *SW. 1096.48*

1st Longitudinal Number (L x D).....= 4473

Manager *Wm. H. C. C. C.*

(Where necessary to be entered in Reg. Book.)

Framing Depth "d," at middle of length. See } 14.7c
Sec. 3 (1d)

Residence Coblenz

Length 256.3 / 267.9 OL

Proportions—Depth to Length—Uppermost continuous deck to top of keel } 14.6

Port of Registry Gothenburg

Breadth 38.2

Do. Long Bridge to top } 10.44
of keel }

If surveyed while building, afloat, ^{and} or in dry dock

Depth 15.

Draught Moulded 16 - 7

Yes.

	Inches IN SHIP. m/m.	Any Departure from Approved Plans to be Noted.		Inches IN SHIP. m/m.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	585	✓	Bracket Floors, Frame	140 75 8-10.5	✓
" " from $\frac{3}{8}$ length to Collision bulkhead.....)	585	✓	" " Reversed Frame	130 75 8-10.5	✓
" " in peaks.....)	585	✓	" " Vertical Struts	130 75 8-10.5	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	835 10.5-13	✓
Frame Amidships, Angle, E or C	165 75 9.5	✓	" " top Angles	75 75 10	✓
" " Extends up to	Alternate frame to bridge deck.	✓	" " bottom Angles	90 90 10.5	✓
Reversed Frame Amidships, Angle E	165 75 11	✓	Side Girders, No. each side and thickness	1 8-10.5	✓
" " Extends up to...	Alternate frame to bridge deck	✓	Margin Plate depth (excl. of flange) and thickness	760 9-11.5	✓
Depth of Framing Girder	165	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	75 75 10	75 x 75 x 8
Frames in Uppermost Continuous Tween R.G. Decks, Angle, E or C	180 75 11	✓	" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	130 130 10	✓
" " Second tween Decks, Angle, E or C	230 90 10	✓	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....)	Every 3rd ft. ✓	
" " Third " " " APT.	140 75 8	✓	" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....)	10 m plate. ✓	
Framing in Peaks, Angle or C	FPT. 150 90 8	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	1370; 8.5-12.	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	19 & 22; 133-135.	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	No.	✓	Breadth and thickness of Middle Line Strake ...	1080 9.5	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	As per Sec. 7.	✓	Thickness of remainder in Holds	7.5-8	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	As per appn plans.	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room ?.....)	Yes.	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	180 75 9	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or C	180 75 9	✓
Middle Line Keelson, on Floors, Angles, C or [.....			Spacing	585	✓
" " Through Plate or Intercostal Plate...)			R.G. Second Deck, amidships, Angle, E or C	300 100 12	✓
" " Foundation Plate on Floors			Spacing	125 75 8	✓
" " Flat Plate Keel Angles			TRUNK Third Deck, amidships, Angle, E or C	140 75 9	✓
Side Keelsons, No. each side			Spacing	585	✓
" " thickness of Intercostal Plate...			Fourth Deck, amidships, Angle, E or C		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or C	150 75 9	✓
Solid Floors, thickness and spacing	8-10.5 Every 3rd ft.	✓	Spacing	Altam frame	✓
" " Are Frame and Reversed Frame joggled ?.....)	No.	✓	Bridge Deck, Angle, E or C	125 75 7	✓
Bracket Floors, breadth and thickness at middle line)	630 8-10.5	✓	Spacing	140 75 8.5	✓
" " breadth and thickness at margin plate.....)	700 8-10.5	✓	Forecastle Deck, Angle, E or C	125 75 7	✓
			Spacing	585	✓

PILLARS AND DECKS.

	Plans IN SHIP. <i>m/m.</i>			Any Departure from Approved Plans to be Noted.		Plans IN SHIP. <i>m/m.</i>			Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....									
" in 'tween Decks, Size and Spacing									
" " " " "									
" in Holds " "									
" " " " "									
Centre Line Bulkhead.									
Stiffeners and Spacing.....									
Plating, thickness of									
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	1500	20-95	✓		<i>Angle</i> Stringer Plate, breadth and thickness in way of Bridge	130	130	12	✓
" " " " in way of Bridge	1500	12-9	✓		Thickness of Plating abreast Deck openings) in way of Wells	8			✓
" Angle in Wells	150	150	15	✓	Thickness of Plating abreast Deck openings) in way of Bridge	7.5			✓
Thickness of Plating abreast Deck openings) in way of Wells	10		✓		Thickness of Plating within line of openings...				
Thickness of Plating abreast Deck openings) in way of Bridge	8		✓		If Sheathed, material and thickness	Note.			✓
Thickness of Plating within line of openings...	7.5		✓		Third Deck.				
If Sheathed, material and thickness	Not sheathed		✓		Stringer Plate, breadth and thickness.....				
<i>R.G.</i> Second Deck.					If Plated, state thickness.....				
Stringer Plate, breadth and thickness in Wells...	1500	11-10	✓		Fourth Deck. <i>A.P.T. top.</i>				
					Stringer Plate, breadth and thickness.....	8.5			✓
					<i>Margin angle</i> If Plated, state thickness	75	75	9	✓
					Poop Deck.				
					Stringer Plate, breadth and thickness	800	75		✓
					" " Plating, Sheathing, material and thickness ...	1 75			✓
					Bridge Deck.				
					Stringer Plate, breadth and thickness.....	1425 x 9			✓
					Plating, Sheathing, material and thickness ..	8-7.5			✓
					Forecastle Deck.				
					Stringer Plate, breadth and thickness.....	7.5			✓
					Plating, Sheathing, material and thickness ..	7.5			✓

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>70</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	<i>Inches m/m</i>	<i>Inches m/m</i>	<i>Inches m/m</i>	<i>Inches m/m</i>			<i>Inches m/m</i>	<i>Inches m/m</i>		<i>Inches m/m</i>	<i>Inches m/m</i>		
FLAT PLATE KEEL	<i>1070</i>	<i>13.5</i> ✓	<i>13.5; 13</i>	<i>13.5; 13</i> ✓		<i>Double</i>	<i>19</i>	<i>75</i>	✓	<i>3</i>	<i>22</i>	<i>77</i>	<i>Lapped</i>
„ DBLG. (if any)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
BOTTOM PLATING, No. of Strakes 3	<i>A 1700</i>	<i>11</i> ✓	<i>12</i> ✓	<i>9.5-11</i> ✓			<i>19</i>	<i>75</i>		<i>3</i>	<i>19</i>	<i>67</i>	✓
	<i>B 1700</i>	<i>11</i> ✓	<i>12</i> ✓	<i>9.5-11</i> ✓			<i>19</i>	<i>75</i>		<i>3-2</i>	<i>19-22</i>	<i>67, 77</i>	✓
	<i>C 1700</i>	<i>11</i> ✓	<i>15-13.5</i>	<i>10-11</i> ✓		<i>Double</i>	<i>19</i>	<i>75</i>	✓	<i>3-2</i>	<i>19-22</i>	<i>67, 77</i>	<i>Lapped</i>
BILGE PLATING, No. of Strakes 1	<i>D. 310</i>	<i>11</i> ✓	<i>15</i> ✓	<i>9.5-11</i> ✓			<i>22</i>	<i>88</i>					
	<i>E 1700</i>	<i>11</i> ✓	<i>15</i> ✓	<i>10.5-9</i> ✓		<i>Single</i>	<i>22</i>	<i>88</i>	✓	<i>3-2</i>	<i>19, 22</i>	<i>67, 77</i>	✓
SIDE PLATING, No. of Strakes 2	<i>F 1700</i>	<i>11</i> ✓	<i>15</i> ✓	<i>10.5-9</i> ✓		<i>Fwd dbl.</i>	<i>19</i>	<i>75</i>	✓	<i>3-2</i>	<i>19, 22</i>	<i>67, 77</i>	✓
UPPER DECK, Sheer-strake in Well. <i>G.</i>	<i>1250</i>	<i>22</i> ✓	✓	✓		<i>Both</i>	<i>22</i>	<i>88</i>	✓	<i>3</i>	<i>22</i>	<i>77</i>	✓
UPPER DECK, Sheer-strake in Bridge <i>G.</i>	<i>1250</i>	<i>11</i> ✓	✓	✓		<i>Single</i>	<i>19</i>	<i>75</i>	✓	<i>3</i>	<i>19</i>	<i>67</i>	✓
STRAKE BELOW Sheer-strake in Well. <i>F.</i>	<i>1700</i>	✓	<i>15</i> ✓	✓		<i>Double</i>	<i>22</i>	<i>88</i>	✓	<i>2</i>	<i>22</i>	<i>77</i>	✓
STRAKE BELOW Sheer-strake in Bridge <i>F.</i>	<i>1700</i>	<i>11</i> ✓	✓	✓		<i>Single</i>	<i>19</i>	<i>75</i>	✓	<i>3</i>	<i>19</i>	<i>67</i>	✓
POOP SIDE PLATING	✓	✓	✓	<i>7.5</i> ✓			<i>19</i>	<i>75</i>	✓	<i>1</i>	<i>19</i>	<i>67</i>	✓
<i>Rg. dk. SIDE PLATING. H</i>	<i>1265</i>	✓	<i>20.5</i> ✓	✓			<i>19</i>	<i>75</i>	✓	<i>3</i>	<i>19</i>	<i>67</i>	✓
BRIDGE SIDE PLATING {	<i>1265</i>	<i>11</i> ✓	✓	✓			<i>19</i>	<i>75</i>	✓	<i>3</i>	<i>19</i>	<i>67</i>	✓
	<i>940</i>												
FORE'C'TLE SIDE PLATING	✓	✓	<i>8</i> ✓	✓			<i>16</i>	<i>64</i>	✓	<i>1</i>	<i>19</i>	<i>67</i>	✓

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c)	4	✓
„ Deck next below		✓
As per Rule	4	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted
KEEL, Bar		✓		
STEM	Forg.	185 x 45	✓	
STERN FRAME {	Propeller Post	Cast	250 x 155	Comp Gen des Axes ✓
	Rudder "	Cast.	250 x 175	— — ✓
Speed of Vessel		10.5 knots.	✓	
RUDDER—Type				
" A x D		151	✓	
" Diam. of head	Forg.	165 ^m / _{in}	Bunmeister & Wain ✓	
" Mainpiece at top pintle				
" " heel ..				
" how constructed		Riveted		
" double or single plate		8		
" coupling, vertical or horizontal		Horizontal	✓	

STIFFENERS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
			200 x 75 x 10.5	✓ 760	✓	
MIDSHIP BULK'D,	FRAME No. 53 Upper tween decks	11-8	170 x 75 x 8.5	✓ 825	✓	✓
"	" Second " 74	10-6.5	170 x 75 x 8.5	✓ 760	✓	✓
"	" Third " 8	14-10.5	150 x 70 x 9.5	✓ 700	✓	also see plan
"	" Holds		130 x 75 x 8.5	✓		
COLLISION	" (in Hold) No. 124	11-6.5	165 x 75 x 10	✓ 610	✓	✓
AFTER PEAK	" Nos. { 8	10.5	150 x 70 x 9.5	✓ 610	✓	✓
	" { 12...	7.5	150 x 75 x 9.5	✓ 610	✓	✓

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *OPEN HEARTH PROCESS.*
Bellechem Steel Co.; Consett Iron Co., Ltd.; Bloctines - Works 7/4; Scottish Iron & Steel Co., Ltd.; The Steel Company of Scotland;
Has the Steel been tested as required by the Rules? *Yes.* ✓

EQUIPMENT No 16700. ✓												LETTER '9' ✓	ANCHORS. 3-1. ✓			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
37503	1st Bower ...	34	2	14	✓			32	1	3	14	26½	Byers Impr.	Messrs.	Sunderland.	
37504	2nd „ ...	31	3	4	✓			30	0	2	14	26½	Stockless	W.L. Byers & Co. Ltd.	13-9-1937.	
37505	3rd „ ...	28	3	0	✓			27	13	3	0	26½			J. H. Butler	
	Collective weight.	95	0	18	✓							94				
50644	Stream	8	2	2	✓	2	0	26	10	12	2	0	8½ ex stock	Ordinary forged Wrought anchor	✓	Cradley Heath 27.7.37 L. V. Paul.

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.			
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
54837	240	1 1/16	5 1/4	7 1/4	345-0-7	344 3/4	240	1 1/16	Stud link.	✓	Cradley Heath 9-7-1937 L. V. PAUL.	TOWLINE...	90	3 1/2	25-7	90	3 1/2		
												HAWSERS & WARPS	2x90	2 1/2	13-2	2x90	2 1/2		
												"	2x90	2	8-3	2x90	1 3/4		
Iron Stream Chain or Steel Wire	75	4			33-2		75	4				"							

Steering Gear, Steam *Helsingborgs Varfs 9/8*. Steering Gear, Hand *Wheel & screw*.
Boats *2 lifeboats. 1 working boat.* Steering Chains, Size and Test *1 1/2 tons. No. 8289.* Windlass *Steam, Helsingborgs Varfs 9/8.*
Ceiling in Holds, thickness and material *2 1/2" Swedish pine.* Cargo Battens, thickness, material and spacing *Not fitted.*
Cargo Hatchways.—(Upper Deck) *Steel coamings.* Thickness of Hatches *No. 1: 80 mm. Remaining 75 mm.*
Size of No. 1 Hatchway (Forward) *8202 x 5486* No. 2 Bridge dk *9372 x 5486* No. 3 *8190 x 5486* No. 4 *7605 x 5486* No. 5 ✓ No. 6 ✓
Number of Shifting Beams and/or Fore and Afters *No. 1 = 3; No. 2 Bridge dk = 5; No. 2 MAIN dk = 5; No. 3 = 4; No. 4 = 4.*
No fore and afters.

Builder's Signature

Helsingborgs Varfs Aktiebolag

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *No.*
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No.* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built under special survey in accordance with the approved plans and instructions. ✓ The workmanship and materials are good. Findings and castings as per certificates attached. ✓ All the double bottom and peak tanks have been tested as per Rule. ✓ The decks, hatchways, W.T. bulkheads, shaft tunnel, W.T. don, etc., have been braced tested and found good. The steering engine and the windlass tested under steam. The barpaullins examined, tested with water and found satisfactory. ✓
The vessel is strengthened for navigation in ice in accordance with Section 41 of the Rules and approved plans. ✓

The amount of Entry Fee *# Kr. (Sw) 95.-* Fees applied for, *27/6, 1938*
Special Survey Fee.... *# Kr. (Sw) 2902.25* Received by me, *4/7 1938*
Travelling Expenses, if any £ ✓ : *5/7.*
State whether the Vessel has been built under Special Survey *Yes*

(Special notations, where part of class, to be stated.)
I am of opinion the Vessel should be Classed ** 100 A1*
Strengthened for navigation in ice.
Lloyd's R. & C.P. Cargo battens not fitted ✓
Signature *P. O. Jorgensen*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *This office.* Date of issue *11/7/38*

Committee's Minute

Character assigned

+ 100 A1
Lloyds A & C.P. *+ Lmc 6.38 .OG. 28*
Cargo battens not fitted
Strengthened for Navigation in ice

Witte & Co. (Hrm)



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Lloyd's Register Foundation

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

"S Irene", Helsingborg Report No. 1064 A.

Following approved plans are forwarded under separate cover.

Midship-section.
Profile and deckplan.
Bridge front and fore-castle bulkheads.
Engine- and thrust shaft seating.
Stanchions.
Slatkes.
W.T. Bulkheads.
Rudder quadrant.
Rudder.
Sternpost.
Shell plating.
Manhole door on bridge deck.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Strengthened for navigation in ice. Lloyd's A.C.P. Cargo battens not fitted. Dissection
Sinking Apparatus (D.F.)

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	20 - 3 - 2	R.L.	6782	9.7.37
2nd "	18 - 0 - 21	R.L.	6784	9.7.37
3rd "	17 - 3 - 14	R.L.	6783	9.7.37

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 19.2 ft., R.Q.D. 82.5 ft., Bridge 101.6 ft., Fore-castle 19.7 ft.
(in feet and tenths). When the Poop or Fore-castle are joined to the B.D., this should be distinctly stated

No. and Material of Decks 1 DK (Stl.)

Official No. 8271; Signal Letters SDBT

Is bottom of vessel coated with cement Yes if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	84.4	179	Fore peak tank,	13.4	28
Double bottom, under Engines and Boilers,	34.5	82	After peak tank, (Overhang over tunnel)	17.25	55
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	101.7	199	Other tanks, if fitted,	✓	✓
Total capacity of double bottom		460	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 27

Date 26. 10. 1936

Dates of Surveys held while building

On stock:— 1937. Sept 30. Oct. 9, 11, 13, 18, 25, 30. Nov. 3, 5, 9, 23. Dec. 4, 8, 10, 22, 29.
1938. Jan. 3, 5, 13, 14, 15, 19, 26. FEBR. 5, 14, 24, 25. March 1, 3, 9, 10, 17, 18, 22, 28. April 5, 7, 12, 25, 26, 27, 29.
29.
Afloat:— 1938. April 30. May 5, 6, 10, 11, 13, 14, 17, 20, 23, 24, 27, 30. June 2, 7, 10, 13, 14, 17, 18, 19, 20.

Total No. of Visits 66