With or Without Disconnected Erections.

STEEL STEAMER.

(38382) 38369

Received at London Office TUE 25 JUL 1921

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

Date of completion of report 4 JUL 1921 Port of LIVERPOOL. No. 12393.

Survey held at Birkenhead 3 Bowers Date, First Survey [illegible] Last Survey July 1st 1921

In the (Steel, Single, Twin, Triple Screw) S.S. "MALVOLIO" Rig Schooner

RETAIN

CLASS 100 A.1.

		FEET.
TONNAGE under Tonnage Deck	5955.40	
Do. between Tonnage Dk. and 3rd and 4th Dk.		
Total under Upper Dk.	2227.40	
Do. of Poop	135.17	
Do. of R.Q.Dk.		
Do. of Bridge House		
Do. of Forecastle	103.18	
Do. of Houses on Dk.	299.73	
Do. of excess of Hatchways	65.14	
Do. above Crown of Engine Room	132.39	
Gross Tonnage	8918.41	
Less Crew Space	333.09	
Less above Crown of Engine Room	2853.89	
TONNAGE FOR FEES	5731.43	
Engine Room	132.39	
Navigation Spaces	9.11	
Register Tonnage as cut on Beam	5599.43	
Breadth (greatest moulded)		62.25
Depth, at middle of length from top of keel to top of upper deck beams at side		34.50
Transverse Number		99.75
Length on deck from fore part of stem to after part of stern post		475.00
Longitudinal Number		47381
Depth "d," at middle of length (See Secs. 2 & 13)		15.79
Protection [illegible] Deck Beam at side to top of keel		12.66
" " Long Bridge Deck Beam at side to top of keel		—

Master D. Poulgrain

Year of appointment (1) As Master in service of owner of present vessel:—19 21 (2) As Master of this vessel 19 19

Built at Geestemünde

When built 1915 Launched —

By whom built J.C. Techlenborg A.G.

Owners The David Steamship Co.

Managers do do

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

Residence 9 Bury Street, Mincing Lane, London E.C.3

Port belonging to London

Destined Voyage Rotterdam. If Surveyed afloat, and in Dry Dock Yes

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.		
LENGTH on Deck as per Rule	475	0	BREADTH— Moulded	62	3	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	34	11 3/4	No. of Decks with flat laid	3 yes.
						do. do. Second Dk. Beams	26	11 3/4	No. of Tiers of Beams	3

Dimensions of Ship per Register, Length 478 breadth 62.6 depth 34.85 Moulded depth, ft. 45 ins. 6 To Bridge Dk. Round of Upper Deck Beam, Actual 1 1/4 ins.

Moulded depth, ft. [illegible] ins. 6 To Upper Dk. Dk. Beam, Actual [illegible] ins.

FRAMING.

	Inches in Ship.	Inches per Rule	Inches Or as Approved.
FRAME, Angles or Bars amidships	2½	2½ .46	
Do. in peaks	2½	2½ .46	
Do. in way of Double Bottoms at Solid Floors	3½	3½ .45	
" " at intermdt. Bkts.	—	—	
Spacing of Frames from centre to centre amidships		29.1	
" " " " from ⅛ length to Collision bulkhead		27.5	
" " " " in peaks		28.6	
REVERSED FRAMES, Angles or Bars amidships	3½	3½ .43	
Do. in way of Double Bottoms at Solid Floors	3⅜	3⅜ .45	
" " at intermdt. Bkts.	—	—	
FRAMING, depth of girder		9.8	
FLOORS, depth and thickness of Floor Plate at mid-line for ½ length amidships			
" in way of Engine and Boiler Spaces			
" thickness at the ends of vessel			
" depth at ¼ the half breadth, as per Rule			
" height extended at the Bilges			
FLOORS in Cell. Double Bottoms		.45	
" state if flanged (top & bottom)			
" Spacing of Solid floors			
CENTRE GIRDER, Plate, in Double Bottom & thickness		46½ .57	
" Angles, Top	3½	3½ .57	
" Bottom	5⅜	5⅜ .55	
" " " to Floors	5⅜	5⅜ .67	
" Brackets at intermdt. frmg., wdth & thkns	—	— —	
SIDE GIRDERS, number on each side & thickness		3 .43	
" State if Single or Double (Top and Bottom)		No	
" Angles (top and bottom)	3½	3½ .43	
" to Floors	3	3 .43	
MARGIN PLATE, depth exclusive of flange and thickness	See Sec. 39	.51	
" " Angle to Outside Plating	4 5/16	4 5/16 .51	
" " " Floors	3½	3½ .43	
" Brackets at intermdt. frmg., wdth & thkns	—	— —	
" Height of Outside Brackets above at bilge			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	E.S.	42½ .53	
" " in Engine and Boiler space	B.S.	— .53	
" " " Remainder in Holds	.45	40 .39	
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7 13/16	3 .47	
" In way of Bridge	8	3 .47	
" Spacing		29.1	
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3½ .43	
" Spacing		29.1	
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3½ .47	
" Angles on upper edge	—	—	
" Spacing		29.1	
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9½	3½ .49	
" Angles on upper edge	—	— —	
" Spacing		58.2	
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7 13/16	3 .47	
" Angles on upper edge			
" Spacing		29.1	
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9 13/16	3½ .55	
" Angles on upper edge	—	— —	
" Spacing	55	4 47.2	

PILLARS.

	Inches Size in Ship.	Inches Spacing in Ship.	Inches per Rule Or as Approved.
PILLARS in Lower Deck, size and spacing			
Hold			
" " in Holds			

KEELSONS & STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate					
" Rider Plate					
" Flat Plate Keel Angles					
" Horizontal Plates on Floors					
" Angles or Bulb Angles					
SIDE KEELSONS, Number					
" Angles or Bulb Angles					
" Plate above floors, for length					
" Intercostal Plate, for length					
" Attached to outside Plating with Angle					
BILGE KEELSON, Angles					
" Intercostal Plate for length					
" Attached to outside Plating with Angle					
SIDE STRINGERS, Number					
" Angle					
" Intercostal Plate for length					
" Attached to outside plating with Angle					

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Approved.
Upper Deck Stringer Plate, breadth (clear of Bridge)				78 x [illegible]	48
" " " (in way of Bridge)				75 x [illegible]	9.
" Angle (clear of Bridge)				7 x 7 x .70	
" Tie Plate at sides of Hatchways				—	—
" Deck.* Iron or Steel, for full lng.				—	—
" " Thickness (Clear of Bridge)				.51 & .35	
" " " (in way of Bridge)				.37	
" Wood Deck. Material & thickness					
Second Deck Stringer Plate, br'dth & thickness				78 x .50 - .40	
" Angles on ditto, No. Two				3 15/16 x 3 15/16 x .47	
" Tie Plates outside Hatchways				—	—
" Deck.* Iron or Steel, for full lng.				.37 & .31	
" Wood Deck. Material & thickness				none	
Third Deck Stringer Plate, br'dth & thickness				78 x .50 - .40	
" Angles on ditto, No. Two				3 15/16 x 3 15/16 x .47	
" Tie Plates, outside Hatchways				—	—
" Deck.* Material and thickness Steel				.35 & .31	
Fourth and Fifth Deck Stringer Plate, breadth & thickness in Fore hold.				51 x .40	
" " " Angles on ditto, No. Two				3 15/16 x 3 15/16 x .43	
" " " Tie Plates outside Hatchways				—	—
" " " Deck. Material & thickness Steel				.31	
Poop Deck Stringer Plate, breadth & thickness				42½ x .34	
" Angle on ditto				3⅜ x 3⅜ x .39	
" Tie Plates				12½ x .37	
" Deck. Material and thickness Oregon Pine 3"					
Bridge Deck Stringer Plate, br'dth & thickness				68 x .78	
" Angle on ditto				5⅛ x 5⅛ x .55	
" Tie Plates Steel deck				.47	
" Deck. Material and thickness Oregon Pine 3"					
Forecastle Deck Stringer Plate, b'dth & th'kns				42½ x .34	
" Angle on ditto				3⅜ x 3⅜ x .39	
" Tie Plates Steel deck				.29	
" Deck. Material and thickness Oregon Pine 3"					

* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

No. 1A. Im.3.20. T.

W696-0192½

© 2021 Lloyd's Register Foundation

WEB FRAMES.	Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing	/	/		
" " " brdth. & thickness				
" No. of Side Stringers " "				
WEB-FRAMES, In E. & B. Space, No. & spacing	5	116-145		
" " " brdth. & thickness	23	·49		
WEB-FRAMES, In After Body, No. and spacing	—	—		
" " " brdth. & thickness	—	—		
" No. of Side Stringers " "	—	—		
" Size of Face Angles to Web-Frames	9 3/16 × 3½ × ·45 B.A.			
BRACKET PLATES to Stringers between Web Frames, depth and thickness	—	—		

FORGINGS or CASTINGS.	Inches in Ship.	Inches per Rule, Or as Approved.
KEEL, Bar, depth and thickness	—	
STEM, moulding and thickness	10 5/8 × 3 1/8	
STERN-POST for Rudder do. do.	10½ × 9	
" for Propeller	11 × 9	
RUDDER—A×D* Table 22. Speed	12 knots	—
" Main-Piece, diameter at head	12¼	
" " at heel	9	
RUDDER, how constructed	Single plate	
" Thickness of ~~Plates or~~ Single Plate	1·06	
Can the Rudder be unshipped afloat?	Yes	

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, Plating, &c.? ———

Has the Steel been tested as required by the Rules? —

BULKHEADS.	Number Vessel.	Number Per Rule.	Thickness. Inches.	Stiffeners Horizontal Size. Inches.	Horizontal Spacing. Inches.	Vertical Size. Inches.	Vertical Spacing. Inches.	Single or Double Frames.	Height up, state deck.
W.T. BULKHEADS	1		·25 ·75		L	10 5/8 × 3½ × ·53	24	Single 5½ × 5½ × ·53	U.D.
	5		·25 ·39		L	"	30	"	U.D.
See Sec. letter 8/6/21 →	1		·275 ·39		L	"	"		2nd D
" COLLISION "	1		·25 ·45		L	6 5/8 × 3½ × ·53	24	5½ × 5½ × ·53	U.D.
PARTITION "									
LONGITUDINAL "									

Are the outside Plates doubled two spaces of Frames in length? No

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes

PLATING.

STRAKES.	As in Ship Amidship Breadth. Inches.	Amidship Thickness. Inches.	Forward Thickness. Inches.	Aft Thickness. Inches.	Per Rule or as Approved Amidship Breadth. Inches.	Thickness. Inches.
Flat Plate Keel (If Bar Keel, state Riveting)	52	1.20				
Garboard or A Strake	68	·70				
B " (State actual thickness in way of Double Bottom.)	68	·70				
C "	68	·70				
D "	68	·70				
E "	68	·70	·74 See letter			
F "	68	·74				
G "	68	·72				
H "	68	·72				
J "	68	·72				
K "	66	·70				
L "	54	·70				
M "	66	·70				
Upper dk Sheer N "	52	·70				
O "	52	·70				
P "	52	·78				
Q "						
R "						
S "						
T "						
U "						
V "						
W "						
Th'kness of Sh'rstrke clear of ~~Long~~ Bridge*		·94				
Do. of Strake below	—	·70				
Dblg. of Flat Plate Keel	—					
" Sheerstrakes Length and thickness.		1·26	8 frame spaces at ends of Bridge			
Poop Sides			·41			
~~Short~~ Bridge Sides		·70				
Forecastle Sides			·43			

Write "Bridge Sheer Strake" and "Upper Deck Sheer Strake" opposite the corresponding letter

* Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.

RIVETING.

Edges, Ordinary or Joggled? Ordinary

Edges Single or Double.	Breadth of Lap.	Rivets Diam.	Rivets Spacing cr. to cr.	Double or Treble and for what Length.	Butts Rivets Diam.	Rivets Spacing cr. to cr.	Straps Breadth.	Straps Thickness.	If Lapped Breadth.	For what Length.
Inches.		Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.

Riveting of edges & butts as per Midship Section.

Upper Deck Stringer Plate — Butts, Quad riveted for half length amidship. Treble " in way of Bridge. Straps, single, double or overlapped for — length amidship.

Second Deck Stringer Plate — Butts, dble riveted for full length ~~amidship~~. Straps, single or overlapped for — length amidship.

Deck plating butts & seams as per Midship Section.

Butts of Side Stringers — riveted.

" Tie Plates — riveted.

Inner Bottom Plating, riveting of Edges dble & Single Butts Treble, dble & single

Centre Girder Butts, Treble riveted. Keelson Butts, — riveted.

Frames, riveted through Plates with 1" & 1⅛" in. Rivets, about 6⅞ & 6¾ apart.

Rivets, state whether Iron or Steel —

FRAMES extend in one length from Centre line to margin, thence to Upper, Poop, Bridge & f'cle decks. State if ordinary or joggled Ordinary

REVERSED FRAMES on floors and frames extend from Centre line to margin, floors to 4th deck in fore peak, margin to 3rd deck in fore hold aft to 177½ to 3rd deck in Nos 2-3-4-5 & 6 holds & E & B. space. To poop deck in aft peak. State if ordinary or joggled Ordinary

MASTS, SPARS, &c.

	Material.	Total Length.	Diameter and Thickness At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles Number.	Angles Size.	Riveting Seams.	Riveting Butts.
Lower Masts Fore	Steel										
Lower Masts Main	Steel										
Lower Masts Mizen	—										
Bowsprit											

Topmasts, Yards and Remainder of Spars Topmasts steel.

Rigging, Material and Size, Shrouds 4¾ steel wire. Stays 5½, 4¾, 2¾ steel wire.

Sails. None Suit of — Sails, and the following spare sails —

Form No. 1A.

EQUIPMENT No. LETTER Ef ANCHORS. TONNAGE U. DK. OR PLATING No. FOR TRAWLERS

Number of Certificate.	Anchors.	Weight, Ex. Stock. Cwts. qrs. lbs.	Weight of Stock. Cwts. qrs. lbs.	Test, per Certificate. Tons. cwts. qrs. lbs.	Weight Required by Table 31. Cwts. qrs. lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
	1st Bower							
	2nd "	3 Bowers		See Liverpool letter		15/6/21		
	3rd "			& Secretary's letter		17/6/21		
	4th "							
	Collective weight.							
	Stream	One						
	Kedge	One						

If Patent state Name of Patentee. If Stockless, state Mechanical Tests.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test. 1st Bower / 2nd " / 3rd " / 4th "

CHAIN CABLES.

Number of Certificate.	Length supplied. Fathoms.	Diam. Ins.	Test Statutory. Tons.	Test Breaking. Tons.	Weight Supplied. Cwts. qrs. lbs.	Weight Per Rule. Cwts. qrs. lbs.	Length per Table 31. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
	300	2 3/16	✓	See Liverpool letter					15/6/21.		
				& Secretary's letter					17/6/21.		
Iron Stream Chain	120	1 3/16	✓								

HAWSERS AND WARPS.

	Material	Length supplied. Fathoms.	Cir. Ins.	Breaking Test of Steel Wire Towline. Tons.	Length per Table 31. Fathoms.	Cir. Ins.
Towline		90	5	Steel wire		
Hawsers & Warps		90	4½	"		
		4-90	3	"		
" "		100	12	Manila		
" "		8-90	8	"		

Boats Four lifeboats, one Batter. Steering Gear, Steam Good ✓ Steering Gear, Hand Good

Pumps, Number One downton type. One hand pump in fore peak. Diameter of Barrel 5" & 3" State whether they are in efficient working order Yes.

Windlass is Steam. Capstan —

Engine Room Skylights.—How constructed? Steel. Steel hinged flaps What arrangements for deadlights in bad weather? Bulls eye lights.

Coal Bunker Openings.—How constructed? Steel coamings How are lids secured? Hatches & battens Height above deck? 2'-7½".

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 7 upper dk & 3 Bdge dk, P & S. 5 Freeing Pts 2'-0" × 1'-6" & open rails P.S.

Ceiling in Holds, thickness and material 2½" spruce. Over bilges only Cargo Battens, thickness and material 2" spruce

Cargo Hatchways.—How formed? Steel coamings. Wood hatches, tarpaulins & battens Hatches, If strong and efficient? Yes.

State size No. 1 Hatch (Forward) 22'-11" × 20'-0"; No. 5 Hatch 26'-5" × 20'-0". No. 2 Hatch 33'-11" × 20'-0"; No. 6 Hatch 26'-5" × 20'-0". No. 3 Hatch 24'-3" × 20'-0"; No. 7 Hatch 19'-6" × 20'-0". No. 4 Hatch 12'-0" × 17'-0"; No. 8 Hatch 6'-0" × 13'-0"

Number of Web Plates, ~~Shifting Beams and Fore and Afters~~ to each Hatch No 1 = 5, No 2 = 7, No 3 = 5, No 4 = 1, No 5 = 5, No 6 = 5, No 7 = 3, No 8 = none.

No. of Breasthooks Four No. of Crutches Deep floors.

Bulwarks, height above deck and description 4'-0". Steel. Main Rail, material and size Steel 6½" × 3" × ·40" B.A.

The foregoing is a correct description.

Builder's Signature (here only) *Surveyor's Signature* W. W. Cole *Surveyor to Lloyd's Register of Shipping.*

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made in any correspondence connected with the case*)

S. 21/5/21, M 24/5/21, M 8/6/21, M 17/6/21, M 26/5/21.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed.

Is the riveted work properly closed? Yes.

Are the liners between the frames and plates solid single pieces? Yes. Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes. Are the rivet holes well and sufficiently countersunk in the plate and punched 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. 26, par. 20)? — State results of tests —

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? — State results of tests —

General Remarks (State quality of workmanship, &c.) The vessel is constructed generally in accordance with the Midship Section herewith. The workmanship is good.

The instructions contained in the Secretary's letters of the above dates have been complied with, together with the requirements of Section 48 of the Rules, with the exception of the drilling of the shell plating.

Note:- Seven bulkheads are fitted extending to the upper deck & one extending to the second deck. A web frame is fitted above the latter bulkhead in the tween decks. See Secretary's letter 8/6/21.

See also Liverpool Report of Special Survey No 3.

The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee ...... £ : :
Special Survey Fee .... £ : :
Travelling Expenses, if any £ : :

Fees applied for, 19 — Received by me, 19 — See Rpt 8

Certificate to be sent to — *Date of issue* 7.9.21.

~~State whether~~ The Vessel has been built under Special Survey of Germanischer Lloyd

I am of opinion this Vessel should be Classed 100 A.1.

With, or without Freeboard, as condition of Class with W. W. Cole *Surveyor to Lloyd's Register of Shipping.*

Committee's Minute LIVERPOOL -4 JUL 1921

Character assigned See report attached.

EWS

The Surveyors are requested not to write on or below the Committee's Minute.

TUE. SEP. 6 1921

100 A1 with fbd

S.S.No 3.7.21

Wr. Li. LMb 7.21

Lr 6/9/21 F.D. E.L.

W696-0192½

JMB

© 2021 Lloyd's Register Foundation

GENERAL REMARKS—(*continued*).

5 116-145
23 ·49
— —
— —
— —
9 3/8 × 3 1/2 × ·45 B.A.
— —

10 5/8 × 3 1/8
10 1/2 × 9
11 × 9
11 beams
12 1/2
9

Bridge plate
1·02
Yes

	1	·25	L	Bridge U.D.
	5	·45	L	" 30 " U.D.
See Seal Letter of 8/10/21.	1	·325	L	" " " 2nd D
	1	·34		
	1	·25	L	U.D.
		·45		

Yes

Ordinary

52	1·20	
68	·70	
68	·70	
68	·70	
68	·70	
68	·70	
66	·74	
68	·72	
68	·72	
68	·72	
66	·70	
54	·70	
66	·70	
52	·70	
52	·70	
52	·78	

Upper dk Sheer.
Upper dk Sheer.

Riveting of edges & butts as per Midship Section.

·94
·70

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 41 ft., R.Q.D. — ft., Bridge 136 ft., Forecastle 68 (in feet and tenths). When the Poop is joined to the R.D. this should be distinctly stated —

·78 ·41 ends of Bridge.

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 should appear in the Register Book*) 3 Dks (Stl) Orlop Dk (Stl) in Hold. 7 Bms to Upper dk, 1 Bm to 2nd dk

Official No. 143133 ; Signal Letters — State if Machinery is fitted aft No.

How are the surfaces preserved from oxidation? Inside Cement on bottom, & paint Outside Paint.

Grad — Wage

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system ~~or with girders on floors~~ Yes.

Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, fore & aft	165	547
Double bottom, under Engines and Boilers,	—	—
Double bottom, if under Engines only,	29	145
Double bottom, if under Boilers only,	—	—
Double bottom, forward,	—	—

Bdk & Bridge

Bdk pitching Bulks & beams

Midship Section.

Extends to margin plate through Upper Deck at Bridge

Ordinary

3rd deck in way of Bdk & 2nd deck in Hold. 3rd & 2nd dks & T.B. Space. To both decks in aft Hold.

Where Fitted.	Length. Feet.	Water Capacity. Tons.
Fore peak tank,	1"3 1/2"	6"6 1/2"
After peak tank,	—	—
Deep tank, aft,	—	—
Deep tank, forward,	—	—
Other tanks, if fitted,	—	—

Fore Hold

Upper Deck

Yes

Order for Special Survey No. ✓

Date ✓

No. — in builder's yard.

Dates of Surveys held while building: June 1.2.3.4.10.13.16.17.20.21.23.29.30. July 1.

Steel
Steel

Total No. of Visits 14

Topmasts & Steel.

Surveyor's Signature W. W. Cole

© 2021 Lloyd's Register Foundation