

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Poop Bridge & Forecastle

Port of Survey

Newcastle

(Type of Superstructures.)

Date of Survey

4th to 6th Jan 1932

Ship's Name

SKELDERGATE

Nationality and Port of

Registry
British
London

Official Number

161365

Gross Tonnage

4251

Date of Build

1930-2

Name of Surveyor

A. Urwin

Moulded Dimensions: Length

368.0

Breadth

52.16

Depth

27.54

Moulded displacement at moulded draught = 85 per cent. of moulded depth

SEE LETTER

9912

tons

Coefficient of fineness for use with Tables

772

Particulars of Classification

*100A1

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth 27.54

(a) Where D is greater than Table depth

(D - Table depth) R =

(27.57 - 24.53) x 2.831 = +8.61

Moulded Breadth (B)

52.16

Stringer plate03

Sheathing on exposed deck

T (L-S) =

(b) Where D is less than Table depth (if allowed)

(Table depth - D) R =

Standard Round of Beam = $\frac{B \times 12}{50}$ =

12.52

Ship's Round of Beam =

12.5

Difference

.02

Restricted to

Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L})$ = $\frac{.02}{4} \times 1805 = \text{NIL}$

Depth for Freeboard (D) =

27.57

If restricted by superstructures

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	48.08	48.08	7.58	✓	48.08
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	225.92	225.92	8.3	✓	225.92
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...	27.58	27.58	7.5	✓	27.58
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	301.58	301.58			301.58

Standard Height of Superstructure

7.18

„ „ R.Q.D.

Deduction for complete superstructure

39.87

Percentage covered $\frac{S}{L} =$

81.95

„ „ $\frac{S_1}{L} =$

81.95

„ „ $\frac{E}{L} =$

81.95

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

77.72

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 39.87 x 77.72 = -30.99

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	46.80	1	46.80	72.0	72.0	1	72.0
$\frac{1}{6}$ L from A.P. ...	20.83	4	83.32	31.5	31.5	4	126.0
$\frac{2}{6}$ L „ ...	5.15	2	10.30	8.0	8.0	2	16.0
Amidships ...	-	4	-	0.0	-	4	-
$\frac{3}{6}$ L from F.P. ...	10.30	2	20.60	14.0	14.0	2	28.0
$\frac{4}{6}$ L „ ...	41.66	4	166.64	56.5	56.5	4	226.0
F.P. ...	93.60	1	93.60	130.0	130.0	1	130.0
Total ...			421.26				598.0

Mean actual sheer aft = EXCESS
Mean standard sheer aftMean actual sheer forward = EXCESS.
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = .33L

„ „ aft of „ = .28L.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75 - S}{2L} \right) = \frac{176.74}{18} \left(\frac{75 - 4097}{3403} \right) = -3.34$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =

27.57

Summer freeboard =

3.35

Moulded draught (d) =

24.22

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

6.05

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 10,359

Tons per inch immersion at summer load water line

T = 37.67

Deduction = $\frac{\Delta}{40T}$ inches

= 6.875

= 6¾

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{772 + 68}{1.36} \cdot \frac{1.452}{1.36}$

Depth Correction 8.61

Deduction for superstructures - 30.99

Sheer correction - 3.34

Round of Beam correction -

Correction for Thickness of Deck amidships -

Other corrections, scantlings, etc. -

61.80

65.98

+ -

8.61 -

- 30.99

- 3.34

- -

- -

- -

8.61 34.33 - 25.72

Summer Freeboard = 40.26

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ... 12¾

Fresh Water Line „ „ „ 6¾

Tropical Line „ „ „ 6

Winter Line below „ „ „ 6

Winter North Atlantic Line „ „ „

Tropical Fresh Water Freeboard ... 2' - 3½

Fresh Water „ „ „ 2' - 9½

Tropical „ „ „ 2' - 10½

Winter „ „ „ 3' - 10½

Winter North Atlantic „ „ „

MARKING FORM

22 JAN 1932

MARKING FORM

9 - APR 1932

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
UPPER DECK						BRIDGE DECK				POOP DECK	
Description of Hatchway	Nº1	Nº2	Nº3	3A	Nº4	Nº5	Nº6	Nº2	Nº3	Nº4	
Dimensions of Hatchway	29'3" x 21'5"	32'8" x 23'10"	17'7" x 23'11"	13'6" x 23'11"	34'11" x 23'11"	28'0" x 23'11"	16'4" x 23'11"	30'4" x 19'11"	28'0" x 19'11"	30'4" x 19'11"	14'0" x 15'11"
COAMINGS	Height above Deck	3'6"	3'6"	3'6"	3'6"	3'6"	3'6"	3'0"	3'0"	3'0"	2'6"
	Thickness	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44
	Stiffeners	8 x 3 x .50 BA	8 x 3 x .50 BA	8 x 3 x .50 BA	8 x 3 x .50 BA	8 x 3 x .50 BA	8 x 3 x .50 BA	7 x 3 x .50 BA	7 x 3 x .50 BA	7 x 3 x .50 BA	7 x 3 x .50 BA
	Brackets, Stays	2	2	2	2	2	2	2	2	2	1
HATCH BEAMS	Number	4	5	3	2	5	4	4	4	4	2
	Spacing	5'10"	5'5"	4'5"	4'6"	5'9 1/2"	5'7"	5'5"	6'0 3/4"	5'7"	4'8"
	Scantling and Sketch	21" x .38	21 1/4" x .38	18 1/2" x .40	23" x .40	22" x .39	21 1/4" x .38	16" x .34	14 3/4" x .34	16" x .34	11 3/4" x .31
	Bearing Surface	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS	Number										
	Spacing										
	Unsupported Lengths										
	Scantling* and Sketch										
HATCH COVERS	Material	W. PINE	W. P.	W. P.	W. P.	W. P.	W. P.	W. P.	W. P.	W. P.	W. P.
	Thickness	3"	2 1/2"	2 1/2"	2 1/2"	3"	2 3/4"	3"	2 1/2"	2 1/2"	2 1/2"
	How fitted	For + aft	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A
	Bearing Surface	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Spacing of Cleats	24	21	24	24	21 1/2	24	23	23	23	23	22
Number of Tarpaulins	3	6	each	each	and spars						

*Are wood fore and afters steel shod at all bearing surfaces? ☒

Are battens and wedges efficient and in good condition? ☒

Are tarpaulins in good condition and in accordance with rule requirements? ☒

Are lashings provided in accordance with rule requirements? ☒

Locking bars fitted to No. 1 Hatchway at Off. 6/6/62

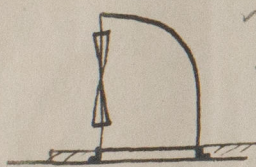
Particulars of fiddle, funnel and ventilator coamings:—

Openings in fiddle tops fitted with gratings and hinged steel covers. Funnel and E & B space ventilators are on tops of machinery casing. Machinery casings 8'6" above tops of bridge deck.

Particulars of Flush Bunker Scuttles:—

None

Particulars of Companionways:—



- ✓ Steel companionway on poop riveted to deck.
- ✓ Sill 22" above steel deck.
- ✓ Solid timber door 4'0" x 28 1/2" x 1 1/2" thick.

* = To spaces above freeboard deck below *see letter 14-1-32.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

On Poop Deck: 2 off 12" diam. wannings 2'6" x .34; 1 off 8" " 2'6" x .30; 6" " 2'6" x .30; 2 steel derrick posts 14" diam. used as ventilators 5" diam. 24" high. All ventilators riveted to steel decks, rivets 4 diams. apart.

On Bridge Deck: 4 off 12" diam. wannings 2'9" x .34; 2 off 18" " 2'6" x .40; 2 derrick posts 18" diam. used as ventilators 5" diam. 24" high. All ventilators fitted with wood plugs and canvas covers.

On Forecastle Deck: 1 off 15" diam. wannings 3'0" x .36; 1 off 6" " 3'0" x .30.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

On Poop Deck: 1 air pipe 27" high 2 1/2" diam. to aft peak.

Bridge Deck: 4 air pipes 18" high 2 1/2" diam. to D.B. All air pipes are runn need type. Means of closing — wood plugs.

Forecastle Deck: 1 air pipe 18" high 2 1/2" diam. to fore peak. Height given.

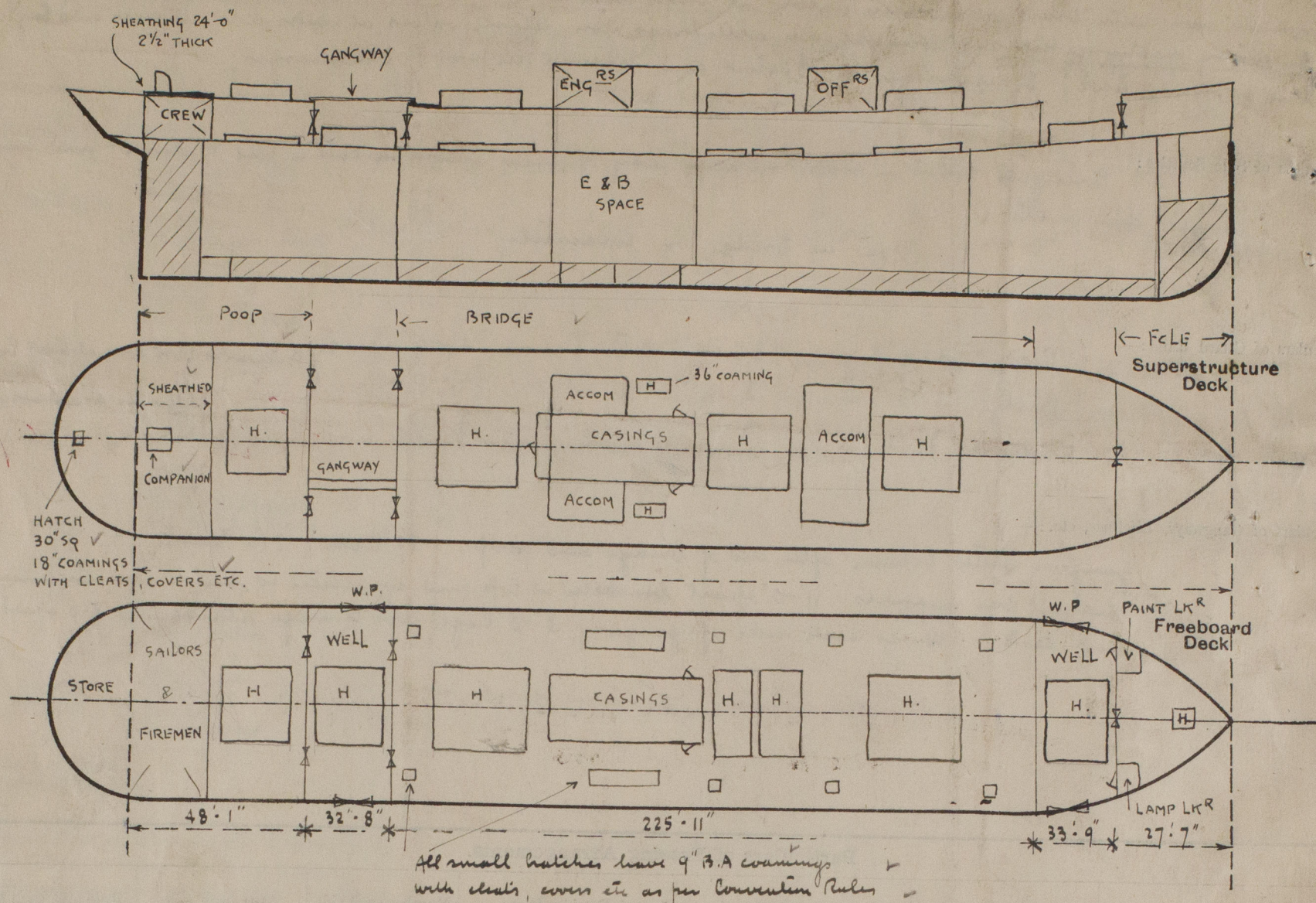
Particulars of Gangway Cargo and Coaling Ports:—

None



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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:—

Timber assignment not required

Builder's name and yard number

Burntisland S.B. Co. Ltd

Names of sister ships

Owners

Redguth S.S. Co. Ltd (Gumbrell Scott & Co. Mgrs)

Fee £ 12 : 15 : 0

Received by me



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