AMENDED (for initial Bld. at fr. 82)

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

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Index No. .....

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LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
ST. MAGNUS	144819	BRITISH ABERDEEN		1924 - 7

Port of Survey .....

Date ~~of Survey~~ 4 - 7 - 56

Surveyor's Signature .....

Particulars of Classification + 100 A1

Moulded Dimensions: Length ..... Breadth 36·0' Depth 18·04'

Freeboard Length 240·33

Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) ..... tons

Coefficient of fineness for use with Tables ·68 (·625 Actual)

DEPTH FOR FREEBOARD (D).

Moulded depth		18·04
Stringer plate ...34"...		·03
Wood Sheathing on exposed deck 4"		
$T\left(\frac{L-S}{L}\right)$ = ·33 x ·057		·02
Depth for Freeboard (D) =		18·09

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D—Table depth) R =

$(18·09 - 16·02) \frac{2·07}{1·848} = +3·82$

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

/

If restricted by superstructures /

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) 36·0'

Standard Round of Beam = $\frac{B \times 12}{50}$ = 8·64"

Ship's Round of Beam = 9·00

Difference + ·36

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1 - \frac{S_1}{L}\right)$ = $\frac{·36}{4}$ (1 - ·1501) = -·01"

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed	55·58	55·58	7·98	-	55·58
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	102·25	102·25	7·98	-	102·25
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed	68·83	46·43	7·98	-	46·43
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward ...					
Total	226·66	204·26			204·26

Standard Height of Superstructure 6·0

„ „ R.Q.D. /

Deduction for complete superstructure 30·033

Percentage covered $\frac{S}{L}$ = 94·30

„ „ $\frac{S_1}{L}$ = } 84·99

„ „ $\frac{E}{L}$ = }

Percentage from Table, Line A. ~~&~~ B. 81·49
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = 30·03 x ·8149 = 24·47"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	34·03	1	34·03			1	
$\frac{1}{6}$L from A.P. ...	15·14	4	60·56			4	
$\frac{2}{6}$L „ ...	3·74	2	7·48			2	
Amidships ...	0	4	0	0	0	4	0
$\frac{2}{6}$L from F.P. ...	7·49	2	14·98			2	
$\frac{1}{6}$L „ ...	30·28	4	121·12			4	
F.P.	68·06	1	68·06			1	
Total ...			306·23				

Mean actual sheer aft / Mean standard sheer aft =

Mean actual sheer forward / Mean standard sheer forward =

Length of enclosed superstructure / L forward of amidships = ·1567

„ „ aft of „ = ·5

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

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck =

Summer freeboard =

Moulded draught (d) =

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

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

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

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

=

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 30·37

Correction for coefficient NIL. 30·37

	+	−
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		

Summer Freeboard =

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

Tropical Fresh Water Line	above	Centre of Disc	Tropical Fresh Water Freeboard ... ...
Fresh Water Line	„	„	Fresh Water „ ... ...
Tropical Line	„	„	Tropical „ ... ...
Winter Line	below	„	Winter „ ... ...
Winter North Atlantic Line	„	„	Winter North Atlantic „ ... ...

5m,6,55. T.

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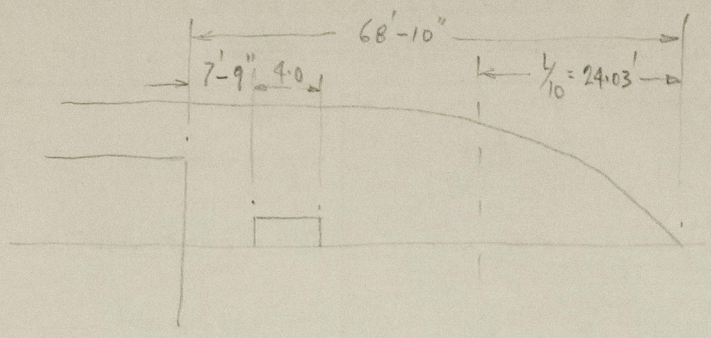
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.



68'-10"
11'-9"
57'-1"

57·08
24·03
33·05
7·75
2 | 40·80
20·40

1/10 = 24·03
+ 20·40
44·43
Comp. 2·0
46·43 ✓

68·83
24·03
44·80
4
40·80
20·40

Trade of ship .....

Names of sister ships .....

Builder's name and yard number .....

Owners .....

Fee £ ..... : ..... : .....

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)

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