Rpt. C.11 (Comp.).

Timber

Lloyd's Register of Shipping.

Index. No. ..... (For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"HALVARD BRATT"	7621	Swedish Gothenburg	1023	1921

Moulded Dimensions: Length 224·2 Breadth 33·46 Depth 16·04

Moulded displacement at moulded draught = 85 per cent. of moulded depth 2325 tons

Coefficient of fineness for use with Tables ·796

Port of Survey .....

Date ~~of Survey~~ 31·10·45

Surveyor's Signature .....

Particulars of Classification .....

Depth for Freeboard (D).

Moulded depth ... ...

Stringer plate ... ...

Sheathing on exposed deck $T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) =

Depth correction.

(a) Where D is greater than Table depth (D—Table depth) R = +1·95 ✓

(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)

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

Ship's Round of Beam =

Difference

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1-\frac{S_1}{L}\right)$ = Nil

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed	14·00		7·0		
„ overhang					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed	59·25		7·0		
„ overhang aft ...	-				
„ overhang forward	·58				
F'cle enclosed	25·00		7·0		
„ overhang	3·00				
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward					
Total					

Standard Height of Superstructure 6·00

„ „ R.Q.D. .....

Deduction for complete superstructure 28·42 ✓

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

„ „ $\frac{S_1}{L}$ =

„ „ $\frac{E}{L}$ = 41·98

Percentage from Table, ~~Line A.~~ Timber 64·24 (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 = 28·42 × ·6424 = – 18·25 ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{6}$L from A.P. ...		4				4	
$\frac{2}{6}$L „ ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$L from F.P. ...		2				2	
$\frac{1}{6}$L „ ...		4				4	
F.P.		1				1	
Total ...							

Correction = $\frac{\text{Difference between sums of products}}{18}\left(\cdot 75-\frac{S}{2L}\right)$ = – ·69

If limited on account of midship superstructure.

Mean actual sheer aft / Mean standard sheer aft =

Mean actual sheer forward / Mean standard sheer forward =

Length of enclosed superstructure / L forward of amidships =

„ „ aft of „ =

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

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

	Ft.
Depth to Freeboard Deck =	16·07
Summer freeboard =	1·06
Moulded draught (d) =	15·01

Deduction for Tropical freeboard ~~and addition for Winter freeboard~~ = $\frac{d}{4}$ inches = 3·75 = 95

Addition for Winter ~~North Atlantic~~ Freeboard (if required) = d/3 = 5·01 = 127 m/m ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

△ =

Tons per inch immersion at summer load water line

T =

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

= 98 m/m ✓

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 27·40 ✓

Correction for coefficient 29·74 ✓

	+	–
Depth Correction	1·95	-
Deduction for superstructures	-	18·25
Sheer correction	-	·69
Round of Beam correction	-	-
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc.	-	-
✓	1·95	18·94

– 16·99 ✓

Summer Freeboard = 12·75

S.F.B. 31·10·45

Timber **SUMMER FREEBOARD** amidships from ~~Centre of Disc~~ to top of Deck Line, ~~Wood~~, Steel, Deck :— 324 m/m

Timber	Tropical Fresh Water Line above Centre of Disc ...	446 m/m Timber	Tropical Fresh Water Freeboard	131 m/m
2·11·45	Fresh Water Line „ „ ...	351 m/m	Fresh Water „	226 m/m
	Tropical Line „ „ ...	348 m/m	Tropical „	229 m/m
	Winter Line ~~below~~ above „ ...	426 m/m	Winter „	451 m/m
	Winter North Atlantic Line „ below „ ...	140 m/m	Winter North Atlantic „	717 m/m
	Summer above	253 m/m		