

*Amended.*Index No. **23766**
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name S/S. "OTHEM"	Official Number 8397	Nationality and Port of Registry Swedish. St. M.	Gross Tonnage 7 m.t.	Date of Build 1914	Port of Survey
Moulded Dimensions: Length 184.0' Breadth 30.0' Depth 14.92'				Date of Survey 14.4.47.	
Moulded displacement at moulded draught = 85 per cent. of moulded depth				Surveyor's Signature	
Coefficient of fineness for use with Tables .749				Particulars of Classification + 100 A.1.	

DEPTH FOR FREEBOARD (D). Moulded depth ... Stringer plate ... Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 14.95'	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = +3.79" (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 = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.03"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure **24.4**

Percentage covered $\frac{S}{L} = 57.58$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$ } **56.94**

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

Percentage from Table, Line B. **Timber 73.58**
(corrected for absence of forecastle (if required))

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

Deduction = **24.4 × 73.58 = -17.95"**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
$\frac{1}{4}$ L from A.P. ...		4				4	
$\frac{3}{4}$ L " ...		2				2	
Amidships ...		4				4	
$\frac{3}{4}$ L from F.P. ...		2				2	
$\frac{1}{4}$ L " ...		4				4	
F.P. ...		1				1	
Total ...							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = +.72"$

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 forward of amidships =

" " aft of " =

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

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

Depth to Freeboard Deck = **14.95'**

TIMBER Summer freeboard = **.67'**

Moulded draught (d) = **14.28'**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **3.57 = 91 m/m.**

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 4.76 = 121 m/m.$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

T =

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

3.57" = 91 m/m.

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... **3.79**

Deduction for superstructures ... **17.95**

Sheer correction ... **.72**

Round of Beam correction ... **.03**

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

4.51 17.98 -13.47

Summer Freeboard = **8.01"**

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

TIMBER Tropical Fresh Water Line above Centre of Disc **372 m/m**

" Fresh Water Line " **281 m/m**

" Tropical Line " **281 m/m**

" Winter Line below above " **69 m/m**

" Winter North Atlantic Line below " **137 m/m**

TIMBER Tropical Fresh Water Freeboard **21 m/m**

" Fresh Water " **112 m/m**

" Tropical " **112 m/m**

" Winter " **324 m/m**

" Winter North Atlantic " **530 m/m**