

timber

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. 31134  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey
vining <u>Port, Bridge, F'cle.</u>					Date of Survey
(Type of Superstructures.)					Name of Surveyor
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification
<u>M/V FALSTERBO</u>	<u>Swedish</u>				
Moulded Dimensions: Length <u>350'</u> Breadth <u>50'-6"</u> Depth <u>28'</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth					
Coefficient of fineness for use with Tables <u>.787.</u>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>28.00</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>(28.03 - 23.33) 2.67</u>	Moulded Breadth (B)
Stringer plate ... .. <u>.03</u>	<u>= + 12.65"</u>	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <u>✓</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>✓</u>	Ship's Round of Beam =
Depth for Freeboard (D) = <u>28.03</u>	If restricted by superstructures <u>✓</u>	Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L}) =$ <u>- .05"</u>

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..	<u>30.67</u>		<u>8.5</u>			Standard Height of Superstructure <u>7.00'</u>
" overhang ... ..	<u>0.25</u>					" " R.Q.D. <u>✓</u>
R.Q.D. enclosed ... ..						Deduction for complete superstructure <u>38.67"</u>
" overhang ... ..						Percentage covered $\frac{S}{L} =$ <u>52.78%</u>
Bridge enclosed ... ..	<u>114.83</u>		<u>8.5</u>			" " $\frac{S_1}{L} =$ <u>52.27%</u>
" overhang aft ... ..	<u>2.25</u>					" " $\frac{E}{L} =$ <u>52.27%</u>
" overhang forward ... ..	<u>2.25</u>					Percentage from Table, <u>Line A Timber</u>
F'cle enclosed ... ..	<u>31.75</u>		<u>8.5</u>			(corrected for absence of forecastle (if required)) <u>70.67%</u>
" overhang ... ..	<u>2.75</u>					Percentage from Table, Line B.
Trunk aft ... ..						(corrected for absence of forecastle (if required))
" forward ... ..						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ... ..						Deduction = <u>38.67 x .7067 = - 27.32"</u>
" " forward						
Total ... ..						

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ... ..		1					1			Mean actual sheer aft =
L from A.P. ... ..		4					4			Mean standard sheer aft =
$\frac{2}{3}$ L " ... ..		2					2			Mean actual sheer forward =
Amidships ... ..		4					4			Mean standard sheer forward =
from F.P. ... ..		2					2			Length of enclosed superstructure forward of amidships =
" ... ..		4					4			" " aft of " =
F.P. ... ..		1					1			
Total ... ..										

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  - .68"

If limited on account of midship superstructure. ✓

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 = 28.03 Ft.  
Summer freeboard = 3.79  
Moulded draught (d) = 24.24

Correction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.06" = 15.47

Correction for Winter North Atlantic Freeboard (if required) =  $\frac{d}{3} =$  8.08" = 20.57

#### Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$  9706

Tons per inch immersion at summer load water line

T = 36.78

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

= 6.60

= 168%

#### TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$\frac{.787 + .68}{1.36} = \frac{1.467}{1.360}$

	+	-
Depth Correction ... ..	<u>12.65</u>	<u>-</u>
Deduction for superstructures ... ..	<u>-</u>	<u>27.32</u>
Sheer correction ... ..	<u>-</u>	<u>.68</u>
Round of Beam correction ... ..	<u>-</u>	<u>.05</u>
Correction for Thickness of Deck amidships ... ..	<u>-</u>	<u>-</u>
Other corrections, scantlings, etc. ... ..	<u>-</u>	<u>-</u>

12.65 28.05 - 15.40

Summer Freeboard = 45.54 = 1157

#### 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	<u>640.00</u>
"	Fresh Water Line " "	<u>486.00</u>
"	Tropical Line " "	<u>472.00</u>
"	Winter Line <u>below</u> above " "	<u>113.00</u>
"	Winter North Atlantic Line <u>below</u> " "	<u>147.00</u>

Summer above 318

Timber	Tropical Fresh Water Freeboard ... ..	<u>835</u>
"	Fresh Water " " "	<u>989</u>
"	Tropical " " "	<u>1003</u>
"	Winter " " "	<u>1362</u>
"	Winter North Atlantic " " "	<u>1622</u>