

T. O. Closed.

30366

Index No. 30366  
(For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>TIRADENTES</b>	Official Number	Nationality and Port of Registry <b>Norwegian Tosky.</b>	Gross Tonnage	Date of Build <b>1922</b>	Port of Survey
Dimensions: Length <b>399.2</b> Breadth <b>53.97</b> Depth <b>38.30</b>					Date of Survey <b>9-10-22</b>
Displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
of fineness for use with Tables <b>.799 assumed (estimated).</b>					Particulars of Classification <b>100TH with fineness</b>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Depth ... <b>38.30</b>	(a) Where D is greater than Table depth (D - Table depth) R = <b>(38.35 - 26.61) × 3 = + 35.22</b> <b>11.74</b>	Moulded Breadth (B) <b>53.97</b>
Exposed deck ... <b>.05</b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 12.95$
Depth for Freeboard (D) = <b>38.35</b>	If restricted by superstructures	Ship's Round of Beam = <b>13.00</b>
		Difference <b>.05</b>
		Restricted to
		Correction = $\frac{\text{Diff} \times S_1}{4 \times L} = \frac{.05 \times 899}{4} = -1.01$

## DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
40.33	40.33	-	7/7.492	37.68
40.33	40.33	-		37.68

Standard Height of Superstructure **7.492**  
" " R.Q.D. **-**  
Deduction for complete superstructure **41.94**  
Percentage covered  $\frac{S}{L} = 10.10$   
" "  $\frac{S_1}{L} = 9.44$   
Percentage from Table, Line A. **4.72**  
(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 = **41.94 × 0.472 = -1.98**

## SHEER CORRECTION.

Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
49.92	1	49.92	8.00	8.00	1	8.00
22.21	4	88.84	.25	.25	4	1.00
5.49	2	10.98	-	-	2	-
-	4	-	-	-	4	-
10.98	2	21.96	-	-	2	-
44.43	4	177.72	2.50	2.50	4	10.00
99.84	1	99.84	13.00	13.00	1	13.00
		449.26				32.00

Mean actual sheer aft =  
Mean standard sheer aft = } **Deficient**  
Mean actual sheer forward =  
Mean standard sheer forward =  
Length of enclosed superstructure forward of amidships = } **17.8**  
" " aft of " = }  
Difference between sums of products  $\left( \frac{75 - S}{2L} \right) = \frac{417.26}{18} \times \left( \frac{.75 - .0505}{.6995} \right) = +16.22$   
on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100 ft. ✓

or Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	71.25 + .34 = <b>71.59</b>
Winter and Winter North Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	<b>77.86</b>
to Freeboard Deck = <b>38.35</b>	Δ =	Depth Correction ...	<b>35.22</b>
Freeboard = <b>10.60</b>	Tons per inch immersion at summer load water line	Deduction for superstructures ...	<b>1.98</b>
Moulded draught (d) = <b>27.75</b>	T =	Sheer correction ...	<b>16.22</b>
Tropical freeboard and addition for Freeboard = $\frac{d}{4}$ inches = <b>6.94 = 7</b>	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction ...	<b>.01</b>
Winter North Atlantic Freeboard (if ...)	<b>4½ = 7</b>	Correction for Thickness of Deck amidships	<b>-</b>
		Other corrections, scantlings, etc. ...	<b>-</b>
		Summer Freeboard = <b>127.31</b>	

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

Tropical Fresh Water Line above Centre of Disc ...	14"	Tropical Fresh Water Freeboard ...	9' 5 1/4"
Fresh Water Line " " ...	7"	Fresh Water " " ...	10' 0 1/4"
Tropical Line " " ...	7"	Tropical " " ...	10' 0 1/4"
Winter Line below " " ...	7"	Winter " " ...	11' 2 1/4"
Winter North Atlantic Line " " ...	7"	Winter North Atlantic " " ...	